## PARCEL DESCRIPTION:

(PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY DEED RECORDED ON 09/11/2013 AT REC. NO. 3963031 PARCEL 1

LOT 2, SLOAN MINOR SUBDIVISION, COUNTY OF WELD, STATE OF COLORADO

HORIZONTAL DATUM:

COORDINATE VALUES AND DISTANCES SHOWN HEREON ARE MODIFIED COLORADO STATE PLANE, NORTH ZONE, NORTH AMERICAN DATUM 1983 [NAD83(2011)]. SCALED FROM A LATITUDE N40°06'14.24797", LONGITUDE W104°31'33.09681", AT AN ELLIPSOID HEIGHT OF 4896.84' WITH A COMBINED SCALE FACTOR OF 1.0002735867.

## VERTICAL DATUM:

NAVD 88. VERTICAL CONTROL BASED ON A GPS DERIVED ELEVATION, ESTABLISHED AT AN ONSITE BENCHMARK NEAR THE MIDDLE OF THE SITE, BEING A FOUND #6 REBAR WITH 2-1/2" ALUMINUM CAL MARKED "AMERICAN WEST LS 37971, WC 50, E1/16, S26, S35, 2013, WITH AN ELEVATION OF 4899.02 FEET. A CHECK SHOT, 0.1+/-, WAS TAKEN ON NGS POINT K62, BEING AN NGS DISK, MARKED "K 962 1934", IN TOP OF CONCRETE MONUMENT, WITH A PUBLISHED ELEVATION OF 4953.71 FEET (NAVD88). NO DIFFERENTIAL LEVELING WAS PERFORMED TO ESTABLISH THIS ELEVATION.

# **CONTACTS:**

MUNICIPALITY TOWN OF KEENESBURG 91 W. BROADWAY AVENUE KEENESBURG, CO 80643 TELEPHONE: (303) 732-4281

OWNER/APPLICANT: MSP INVESTMENT CO, LLP SUITE 940 NORTH TOWER 720 S. COLORADO BLVD. DENVER, CO 80246 TELEPHONE: (303)399-9804 EMAIL: MARCÙSOMSPCOMPANIES.COM CONTACT: MARCUS PALKOWITSH

## PLANNING, CIVIL ENGINEER, & LANDSCAPE ARCHITECTURE

BASELINE ENGINEERING 112 N. RUBEY DRIVE, #210 GOLDEN, CO 80403 TELEPHONE: (303) 940-9966 CONTACTS: PLANNING - JESSIE STONBERG ENGINEERING - MICHAEL LUJAN LANDSCAPE ARCHITECTURE - JESSIE STONBERG

FIRE DISTRICT SOUTHEAST WELD FIRE PROTECTION DISTRICT 95 W BROADWAY STREET KEENSBURG, CO 80643 TELEPHONE: (303) 732-4203 CONTACTS: THOMAS BEACH

### WATER & SANITATION DISTRICT

TOWN OF KEENSBURG 91 W BROADWAY AVENUE KEENSBURG, CO 80643 TELEPHONE: (303) 732-4281

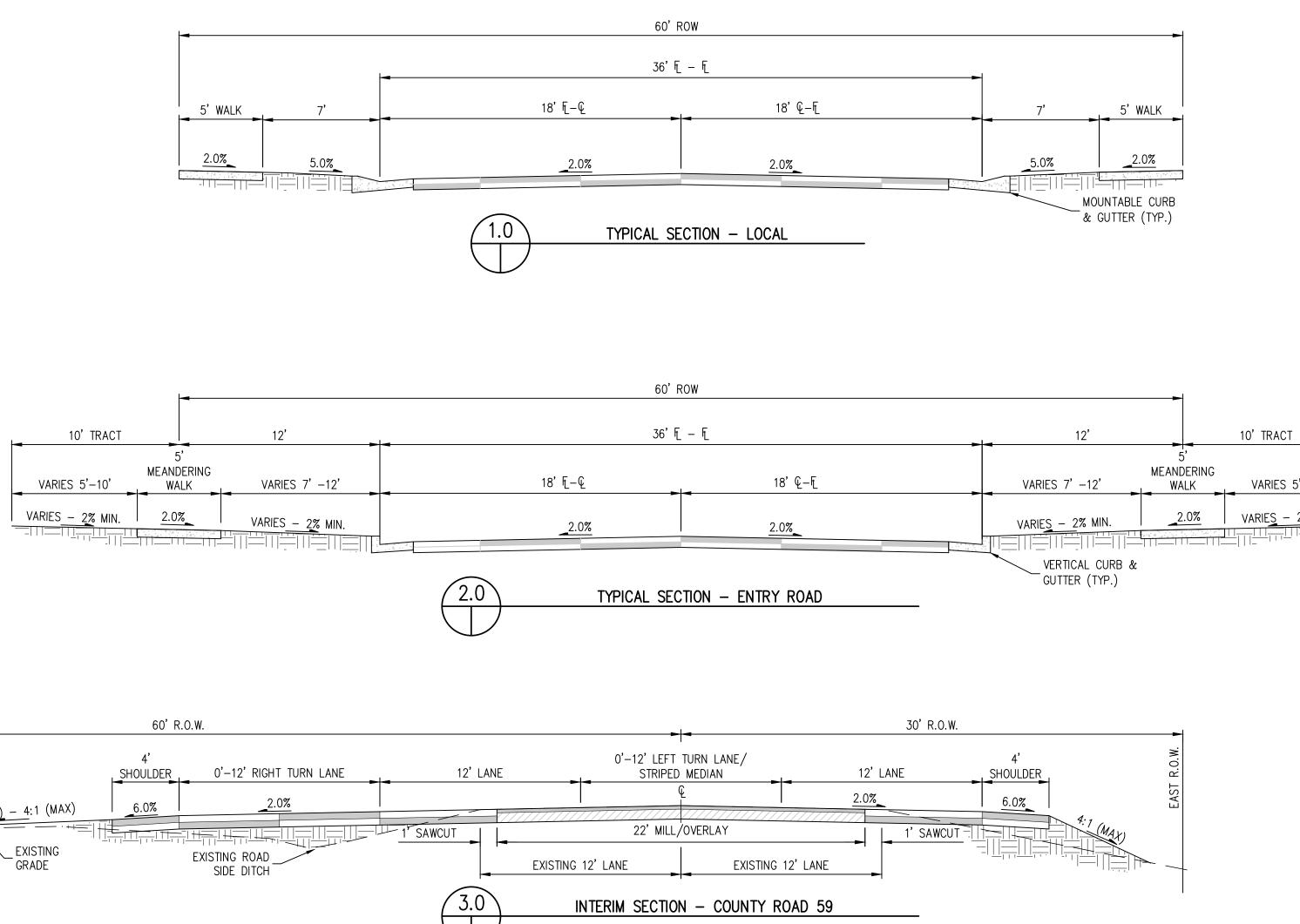


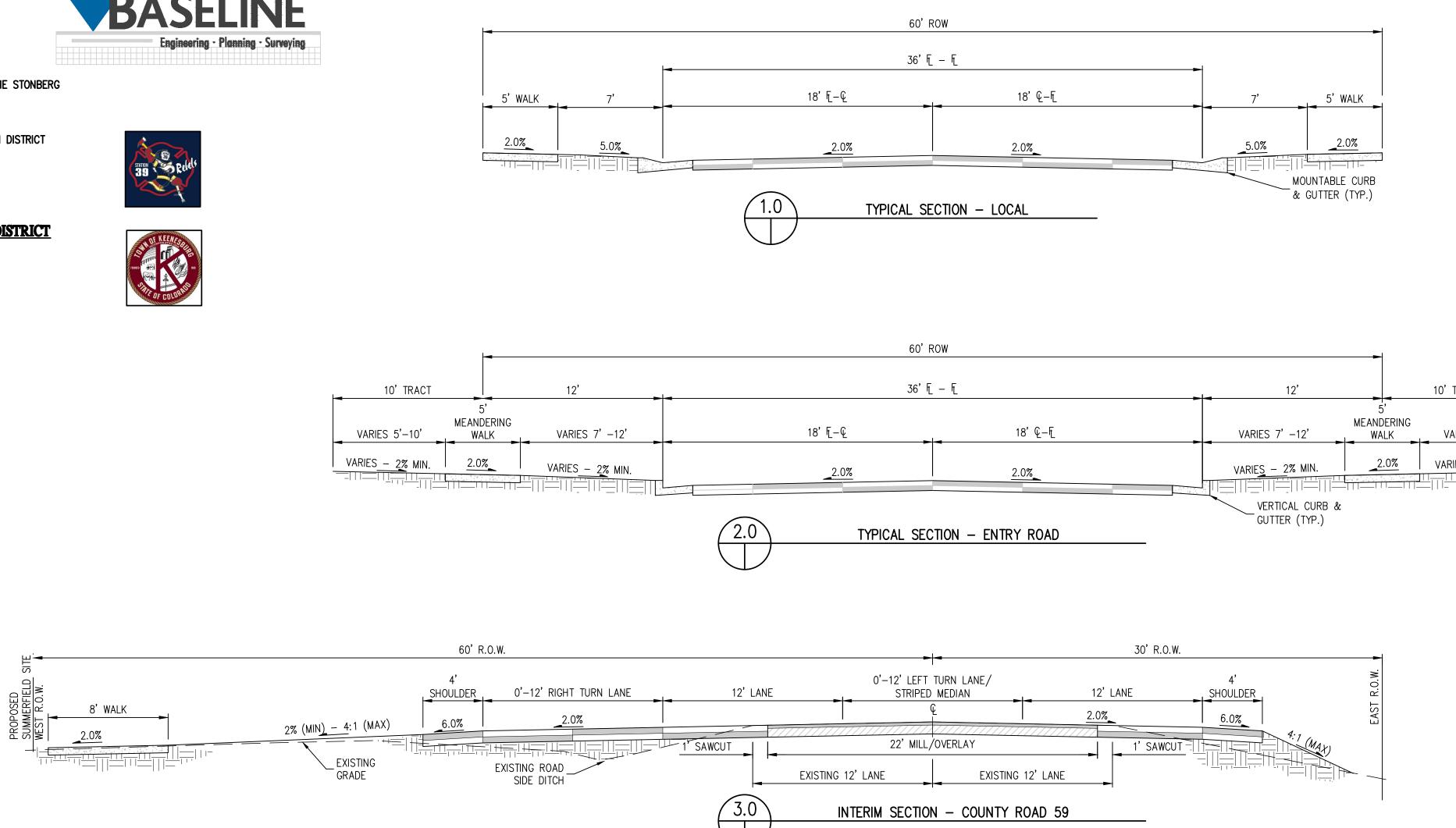












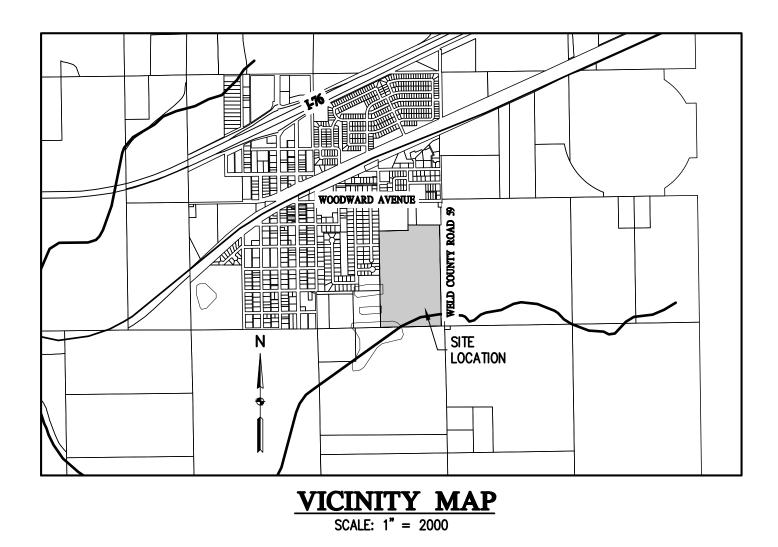
# **CONSTRUCTION DOCUMENTS**

A PARCEL OF LAND LOCATED IN THE SOUTHEAST QUARTER OF SECTION 26,

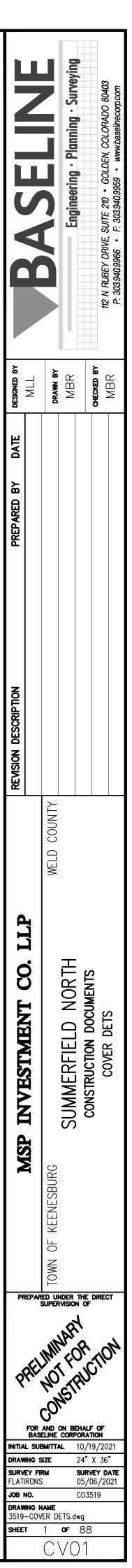
TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE 6TH P.M.,

COUNTY OF WELD, STATE OF COLORADO

SUMMERFIELD NORTH



Sheet List	Table	
SHEET NUMBER	SHEET DESCRIPTION	SHEET TITLE
1	CV01	COVER DETS
2	NT01	NOTES
3	EX01	EXISTING CONDITIONS & DEMOLITION PLAN
4	SP01	OVERALL SITE PLAN & SIGNAGE PLAN
<u>5</u> 6	0001	OVERALL UTILITY PLAN
<u>6</u> 7	EC01 EC02	INITIAL EROSION CONTROL
8	EC02 EC03	INTRAL EROSION CONTROL
9	EC04	
10	EC05	FINAL EROSION CONTROL
11	EC06	FINAL EROSION CONTROL
12	OG01	OVERALL GRADING PLAN
13	GR01	OVERLOT GRADING PLAN
14	GR02	OVERLOT GRADING PLAN
15	RD01	ASHTON DR PLAN & PROFILE
<u>16</u> 17	RD02 RD03	ASHTON DR PLAN & PROFILE N DUNNE DR PLAN & PROFILE
17	RD04	N DUNNE DR PLAN & PROFILE
19	RD05	BRINN ST PLAN & PROFILE
20	RD06	SATURN PLAN & PROFILE
21	RD07	SATURN PLAN & PROFILE
22	RD08	LEMAY PLAN & PROFILE
23	RD09	LEMAY PLAN & PROFILE
24	RD10	LEMAY PLAN & PROFILE
25	RD11	KESWICK PLAN & PROFILE
26	RD12	DERRY PLAN & PROFILE
27	RD13	DERRY PLAN & PROFILE
<u>28</u> 29	RD14 RD15	DERRY PLAN & PROFILE YARNELL ST PLAN & PROFILE
<u> </u>	RD15	S DUNNE DR PLAN & PROFILE
31	RD10	MELROSE ST PLAN & PROFILE
32	RD18	MELROSE PLAN & PROFILE
33	RD19	CR-59 PLAN & PROFILE
34	RD20	CR-59 PLAN & PROFILE
35	RD21	CR-59 PLAN & PROFILE
36	RD22	CR-59 PLAN & PROFILE
37	PD01	DETENTION POND A
38	PD02	DETENTION POND B
<u> </u>	PD03 STM01	DETENTION POND C TRACT H STORM P & P 1
<u>40</u> 41	STM01	TRACT H STORM P & P 2
42	STM02	DERRY ST. STORM P & P 1
43	STM04	DEERY ST. STORM P & P 2
44	STM05	DEERY ST. STORM P & P 3
45	FM01	FORCE MAIN P&P FROM LIFT STATION 1
46	FM02	FORCE MAIN P&P FROM LIFT STATION 2
47	FM03	FORCE MAIN P&P FROM LIFT STATION 3
48	FM04	FORCE MAIN P&P FROM LIFT STATION 4
49	FM05	FORCE MAIN P&P FROM LIFT STATION 5
50 51	FM06 SAN01	FORCE MAIN P&P FROM LIFT STATION 6 ASHTON – DUNNE DR. SANITARY P & P 1
52	SANO1	ASHTON - DUNNE DR. SANITART P & P 1 ASHTON - DUNNE DR. SANITART P & P 2
53	SAN02	ASHTON – DUNNE DR. SANITARY P & P 3
54	SAN04	SATURN DR. SANITARY P & P 1
55	SAN05	SATURN DR. SANITARY P & P 2
56	SAN06	TRACT H SANITARY P & P
57	SAN07	LEMAY ST. SANITARY P & P 1
58	SAN08	LEMAY ST. SANITARY P & P 2
59	SAN09	YARNELL ST. SANITARY P & P 1
<u>60</u> 61	SAN10 SAN11	DUNNE DR. – MELROSE ST. SANITARY PROFILE 1 & 2 MELROSE ST. SANITARY P & P
61 62	SAN11 SAN12	SANITARY TO LIFT STATION P & P
63	SAN12 SAN13	DERRY ST. SANITARY P & P 1
64	SAN13	DERRY ST. SANITARY P & P 2
65	SAN15	DERRY ST. SANITARY P & P 3
66	WTR01	ASHTON DR WTR P & P 1
67	WTR02	ASHTON DR WTR P & P 2
68	WTR03	DUNNE DR. WTR P & P 1
69	WTR04	DUNNE DR. WTR P & P 2
70	WTR05	BRINN ST. WTR P & P
71 72	WTR06	SATURN DR. WTR P & P 1
72 73	WTR07 WTR08	SATURN DR. WTR P & P 2 LEMAY ST. WTR P & P 1
73	WTR08	LEMAY ST. WTR P & P 2
75	WTR10	YARNELL ST. WTR P & P
76	WTR11	DUNNE DR. WTR P & P
77	WTR12	MELROSE DR. WTR P & P 1
78	WTR13	MELROSE DR. WTR P & P 2
79	WTR14	DERRY ST. WTR P & P 1
80	WTR15	DERRY ST. WTR P & P 2
81	WTR16	DERRY ST. WTR P & P 3
82	WTR17	YARNELL ST. P & P
83	DT01	DETAIL 1
84	DT02	DETAIL 2
85	DT03	DETAIL 3
<u>86</u> 87	CD01	DETAIL 1
0/	CD02 CD03	DETAIL 2 DETAIL 3





Know what's **below**. Call before you dig.

VARIES 5'–10' VARIE<u>S</u> – 2% MIN.

<u>TO</u>	WN OF KEENESBURG GENERAL NOTES:	<u>ST</u>
1.	ALL WORK WITHIN THE PUBLIC ROW OR EASEMENT SHALL CONFORM TO THE TOWN OF KEENESBURG CONSTRUCTION DESIGN SPECIFICATIONS.	1.
2.	THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT. A PERMIT FROM PUBLIC WORKS IS REQUIRED FOR ALL CONSTRUCTION IN PUBLIC ROW OR EASEMENTS. A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH TOWN REPRESENTATIVES BEFORE A PERMIT WILL BE ISSUED.	
3.	THE CONTRACTOR SHALL NOTIFY THE TOWN PROJECT REPRESENTATIVE AT LEAST 24 HOURS PRIOR TO DESIRED INSPECTION.	2.
4.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/DEVELOPER, AND THE TOWN, OF ANY PROBLEMS IN CONFORMING TO THE ACCEPTED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS, PRIOR TO ITS CONSTRUCTION.	
5.	IT IS THE RESPONSIBILITY OF THE DEVELOPER DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS, OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROJECT. IF, IN THE OPINION OF THE TOWN, THE MODIFICATIONS PROPOSED BY THE DEVELOPER, TO THE ACCEPTED PLANS, INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO THE FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR RESUBMITTING THE REVISED PLANS TO THE TOWN OF KEENESBURG FOR ACCEPTANCE PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE PROJECT. ANY IMPROVEMENTS NOT CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED PLANS, OR THE ACCEPTED REVISED PLANS, SHALL BE REMOVED AND RECONSTRUCTED ACCORDING TO THE APPROVED PLAN.	3. 4.
6.	THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE TOWN TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.	5. 6.
7.	THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.	0.
8.	THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS. ANY MONUMENT THAT MUST BE DESTROYED FOR CONSTRUCTION SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED SURVEYOR PRIOR TO DISTURBING ANY MONUMENTS.	7.
9.	PRIOR TO FINAL PLACEMENT OF SURFACE PAVEMENT, ALL UNDERGROUND UTILITY MAINS SHALL BE INSTALLED, TESTED AND ACCEPTED, AND SERVICE CONNECTIONS STUBBED OUT BEYOND THE PROPERTY LINE, WHEN ALLOWED BY THE UTILITY. SERVICE FROM PUBLIC UTILITIES AND FROM SANITARY SEWERS SHALL BE MADE AVAILABLE FOR EACH LOT IN SUCH A MANNER THAT WILL NOT BE NECESSARY TO DISTURB THE STREET PAVEMENT, CURB, GUTTER, AND SIDEWALK WHEN CONNECTIONS ARE MADE.	8.
10.	COPIES OF RECORD DRAWING PLANS SHALL BE SUBMITTED TO THE TOWN OF KEENESBURG PRIOR TO INITIAL ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.	9.
11.	BASIS OF BEARINGS: ASSUMING THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 26, TOWNSHIP 2 NORTH, RANGE 64 WEST OF THE SIXTH PRINCIPAL MERIDIAN, AS MONUMENTED BY A 3-1/4 INCH ALUMINUM CAP MARKED "PLS 27269" IN A RANGE BOX, AT THE EAST QUARTER CORNER OF SAID SECTION 26 AND A NO. 6 REBAR WITH A 3-1/2 INCH ALUMINUM CAP STAMPED PLS 22098 AT THE SOUTHEAST CORNER OF SAID SECTION 26 TO BEAR SOUTH 01"12'21" EAST, BEING A GRID BEARING OF THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983/2007, A DISTANCE OF 2640.12 FEET WITH ALL BEARINGS	10. 11.
	CONTAINED HEREIN RELATIVE THERETO.	12.
12.	PARCEL DESCRIPTION: (PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY DEED RECORDED ON 09/11/2013 AT REC. NO. 396303 PARCEL 1: LOT 2, SLOAN MINOR SUBDIVISION, COUNTY OF WELD, STATE OF COLORADO	13.
13.	HORIZONTAL DATUM: COORDINATE VALUES AND DISTANCES SHOWN HEREON ARE MODIFIED COLORADO STATE PLANE, NORTH ZONE, NORTH AMERICAN DATUM 1983 [NAD83(2011)]. SCALED FROM A LATITUDE N40°06'14.24797", LONGITUDE W104°31'33.09681", AT AN ELLIPSOID HEIGHT OF 4896.84' WITH A COMBINED SCALE FACTOR OF 1.0002735867.	14.
14.	VERTICAL DATUM:	15.
	NAVD 88. VERTICAL CONTROL BASED ON A GPS DERIVED ELEVATION, ESTABLISHED AT AN ONSITE BENCHMARK NEAR THE MIDDLE OF THE SITE, BEING A FOUND #6 REBAR WITH 2-1/2" ALUMINUM CAL MARKED "AMERICAN WEST LS 37971, WC 50, E1/16, S26, S35, 2013, WITH AN ELEVATION OF 4899.02 FEET. A CHECK SHOT, 0.1+/-, WAS TAKEN ON NGS POINT K62, BEING AN NGS DISK, MARKED "K 962 1934", IN TOP OF CONCRETE MONUMENT, WITH A PUBLISHED ELEVATION OF 4953.71 FEET (NAVD88). NO DIFFERENTIAL LEVELING WAS PERFORMED TO ESTABLISH THIS ELEVATION.	16.
15.	FOR SURVEY CONTROL AND DATUM INFORMATION, CONTACT BASELINE CORPORATION.	17.
16.	COORDINATES SHOWN ON THIS DRAWING ARE MODIFIED COLORADO STATE PLANE - NORTH ZONE. TO REDUCE TO STATE PLANE	
17.	COORDINATES, SCALE AT 0.999746380 (1.0002735867) ABOUT THE ORIGIN (0,0). ALIQUOT MONUMENTS DESTROYED DURING CONSTRUCTION TO BE REPLACED BY PROFESSIONAL LAND SURVEYOR.	18.
		19.
		20.
		21.
		22.
		23.

.3519 — Summerfield Keenesburg East\Drawings\Construction Documents\Cover, notes, details\3519—COVER DETS.dwg, 10/19/2021 2: 24: 21 PM, Ryan S

## CANDARD EROSION AND SEDIMENT CONTROL NOTES:

LANDOWNERS AND/OR CONTRACTORS ARE RESPONSIBLE FOR OBTAINING A PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE COLORADO DEPARTMENT OF HEALTH & ENVIRONMENT (CDPHE), AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES IF CONSTRUCTION ACTIVITIES WILL DISTURB 1 (ONE) OR MORE ACRES OF LAND, OR IF THE PROJECT BELONGS TO A COMMON PLAN OF DEVELOPMENT THAT WILL DISTURB 1 (ONE) OR MORE ACRES. IN THE EVENT THAT LOT/PARCEL, WHICH BELONGS TO A COMMON PLAN OF DEVELOPMENT THAT DISTURBED 1 (ONE) OR MORE ACRES, IS SOLD THEN THE NEW LANDOWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMIT COVERAGE FOR THAT LOT/PARCEL.

LANDOWNERS AND/OR CONTRACTORS ARE RESPONSIBLE FOR OBTAINING A GRADING PERMIT FROM THE TOWN IF CONSTRUCTION ACTIVITIES WILL DISTURB 1 (ONE) OR MORE ACRES OF LAND, OR IF THE PROJECT BELONGS TO A COMMON PLAN OF DEVELOPMENT THAT WILL DISTURB 1 (ONE) OR MORE ACRES.

THE PERMITTED LANDOWNER AND/OR CONTRACTOR MUST KEEP A COPY OF THE CDPHE STORMWATER DISCHARGE PERMIT, STORMWATER MANAGEMENT PLAN (SWMP) AND INSPECTION LOG AVAILABLE ON—SITE THROUGHOUT THE DURATION OF THE PROJECT, AND FOR AN ADDITIONAL THREE (3) YEARS AFTER INACTIVATION FORM IS FILED WITH THE STATE.

THE PERMITTED LANDOWNER AND/OR CONTRACTOR MAY INACTIVATE THE STATE PERMIT WHEN FINAL STABILIZATION IS REACHED. AS LONG AS ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70 PERCENT OF PRE-DISTURBANCE LEVELS, OR EQUIVALENT PERMANENT, PHYSICAL EROSION REDUCTION METHODS HAVE BEEN EMPLOYED.

THE PERMITTED LANDOWNER AND/OR CONTRACTOR MUST PERFORM INSPECTIONS OF ALL BMPS EVERY 14 DAYS AND ALSO AFTER ANY SIGNIFICANT STORM EVENT (RAIN OR SNOWMELT) THAT MAY CAUSE EROSION TO ENSURE THAT BMPS ARE FUNCTIONING PROPERLY. INSPECTION LOGS MUST BE KEPT WITH THE SWMP. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY.

ALL CONSTRUCTION PROJECTS, WHETHER THEY DISTURB LESS OR MORE THAN 1 (ONE) ACRE SHALL INSTALL, MAINTAIN AND REPAIR EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) ACCORDING TO THE STORMWATER MANAGEMENT PLAN (SWMP) AND/OR EROSION CONTROL PLAN TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. EROSION & SEDIMENT CONTROL MEASURES (BMPS) MUST BE INSTALLED PRIOR TO GRADING OR LAND DISTURBING ACTIVITIES.

LANDOWNERS AND/OR CONTRACTORS MUST ENSURE THAT VEHICLES DO NOT TRACK EARTH MATERIALS ONTO STREETS AND MUST IMMEDIATELY REMOVE SUCH MATERIALS IF THIS OCCURS. EITHER SWEEPING BY HAND OR THE USE OF STREET SWEEPERS IS ACCEPTABLE. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.

ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THE SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORTATION ON PUBLIC ROW.

THE USE OF DIRT RAMPS IS PROHIBITED. A ROCK PAD ENTRANCE SHOULD BE INSTALLED WHERE CONSTRUCTION VEHICLES NEED TO ENTER OR EXIT FROM AN UNPAVED AREA INTO A PAVED ROAD.

LANDOWNERS AND/OR CONTRACTORS ARE RESPONSIBLE FOR CONTROLLING WASTE SUCH AS DISCARDING BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE, AS APPLICABLE.

WASTE COLLECTION AREAS SHOULD BE LOCATED AWAY FROM THE STORM DRAINAGE SYSTEM. CONSIDERATION SHOULD BE GIVEN TO COVERING WASTE STORAGE DUMPSTERS, TO BE ABLE TO CONTAIN WINDBLOWN MATERIALS.

THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING ROAD/CONCRETE CUTTING NEED TO BE PROTECTED. ALL WASTE PRODUCTS GENERATED DURING CUTTING ACTIVITIES MUST BE REMOVED ON A DAILY BASIS.

WATER USE TO CLEAN CEMENT/CONCRETE TRUCKS SHALL BE DISCHARGED INTO A CONCRETE WASHOUT AREA (CWA). THE PREDEFINED CONTAINMENT AREA MUST BE IDENTIFIED WITH A SIGN, AND SHALL ALLOW THE LIQUIDS TO INFILTRATE, EVAPORATE OR DRY OUT. DRIED CONCRETE WASTE SHALL BE REMOVED AND PROPERLY DISPOSED OF.

THE DISCHARGE OF SANITARY WASTE IN THE STORM SEWER SYSTEM IS PROHIBITED. PORTABLE TOILETS MUST BE PLACED ON PERMEABLE SURFACES, AWAY FROM THE CURBSIDE AND AWAY FROM STORM INLETS AND/OR DRAINAGE WAYS.

SPILL PREVENTION AND CONTAINMENT BMP'S FOR CONSTRUCTION MATERIALS, WASTE AND FUEL MUST BE PROVIDED. SPILLS THAT MAY REACH THE STORM SEWER SYSTEM MUST BE REPORTED ACCORDING TO FEDERAL, STATE AND COUNTY REGULATIONS.

STORM INLETS WITHIN AND/OR ADJACENT TO THE CONSTRUCTION SITE SHOULD BE PROTECTED. ANY PONDING OF STORMWATER AROUND INLET PROTECTION MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.

RUNOFF FROM STOCKPILED AREA MUST BE CONTROLLED. SOILS THAT WILL BE STOCKPILED FOR MORE THAN 30 DAYS SHALL BE PROTECTED FROM WIND AND WATER EROSION WITHIN 14 DAYS OF STOCKPILE CONSTRUCTION (MULCH & SEEDING, EROSION CONTROL BLANKETS, ETC). ANY STOCKPILE LOCATED NEAR A DRAINAGE WAY, MUST BE PROVIDED WITH ADDITIONAL BMPS PROTECTION SUCH AS TEMPORARY DIKES OR SILT FENCE.

NATURAL VEGETATION SHALL BE PRESERVED AND PROTECTED WHENEVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS. DISTURBED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS SHOULD BE STABILIZED WITHIN 14 DAYS.

FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THE SITE HAS ACHIEVED FINAL STABILIZATION AND THE PERMIT HAS BEEN INACTIVATED. THE STORMWATER VOLUME CAPACITY OF PONDS MUST BE RESTORED, AND STORM SEWER LINES AND/OR DRAINAGE INFRASTRUCTURE SHOULD BE CLEANED UPON COMPLETION OF PROJECT.

CONDITIONS IN THE FIELD MAY WARRANT EROSION AND SEDIMENT CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THE SWMP AND/OR EROSION CONTROL PLAN. THE LANDOWNER OR CONTRACTOR SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE COUNTY.

ALL AREAS NOT LANDSCAPED OR COVERED BY OTHER PERMANENT SURFACES SHALL BE RESEEDED PER TABLE RV-10 GRASS SEEDING TABLES BASED ON RANGE SITES FOR SANDY MEADOW AND SANDY PLAINS SITE CONDITIONS, AS CONTAINED IN WELD COUNTY CODE, CHAPTER 8, ARTICLE XI - STORM DRAINAGE CRITERIA, DIVISION I - GENERAL PROVISIONS, CHAPTER 12 - REVEGETATION.

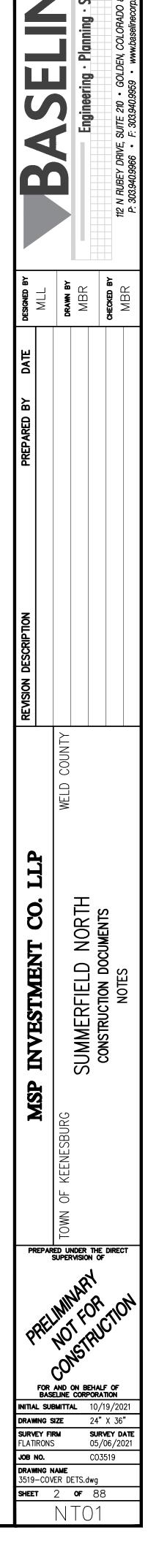
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MINOR CONTOUR (1' INTERVAL)
MAJOR CONTOUR (5' INTERVAL)
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CURB AND GUTTER (SPILL/CATCH)
WIRE FENCE
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existing <u>Symbols</u>		
<u>25.4±</u> ≁	25.36	SPOT ELEVATION
3:1	► <u>3:1</u>	NOMINAL SLOPE ON CUT OR FILL
$\rightarrow$	$\rightarrow$	FLOW DIRECTION, TYPICALLY ON PAVED SURFACES
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	FLOW DIRECTION, TYPICALLY IN GRASSED SWALE
Лууу	Ô	FIRE HYDRANT
$\bowtie$	M	WATER VALVE
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	$\square$	CONCRETE FLARED END SECTION
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MB		MAILBOX





Know what's below. Call before you dig.

<u>LEGEND</u>

		PROPERTY BOUNDARY
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— — — 52	280— — —	MAJOR CONTOUR (10' I
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		EDGE OF GRAVEL
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# CTION LINE NOR CONTOUR (2' INTERVAL) AJOR CONTOUR (10' INTERVAL) GHT-OF-WAY LINE SEMENT DGE OF ASPHALT DGE OF GRAVEL JRB AND GUTTER AINLINK FENCE ATER LINE NITARY SEWER RCE MAIN OODPLAIN TLANDS

# SYMBOLS LEGEND

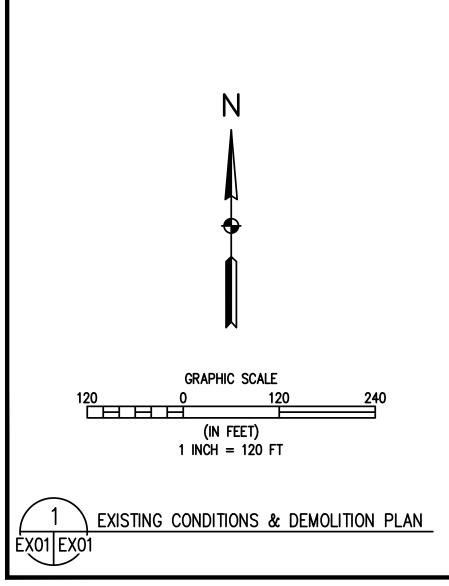
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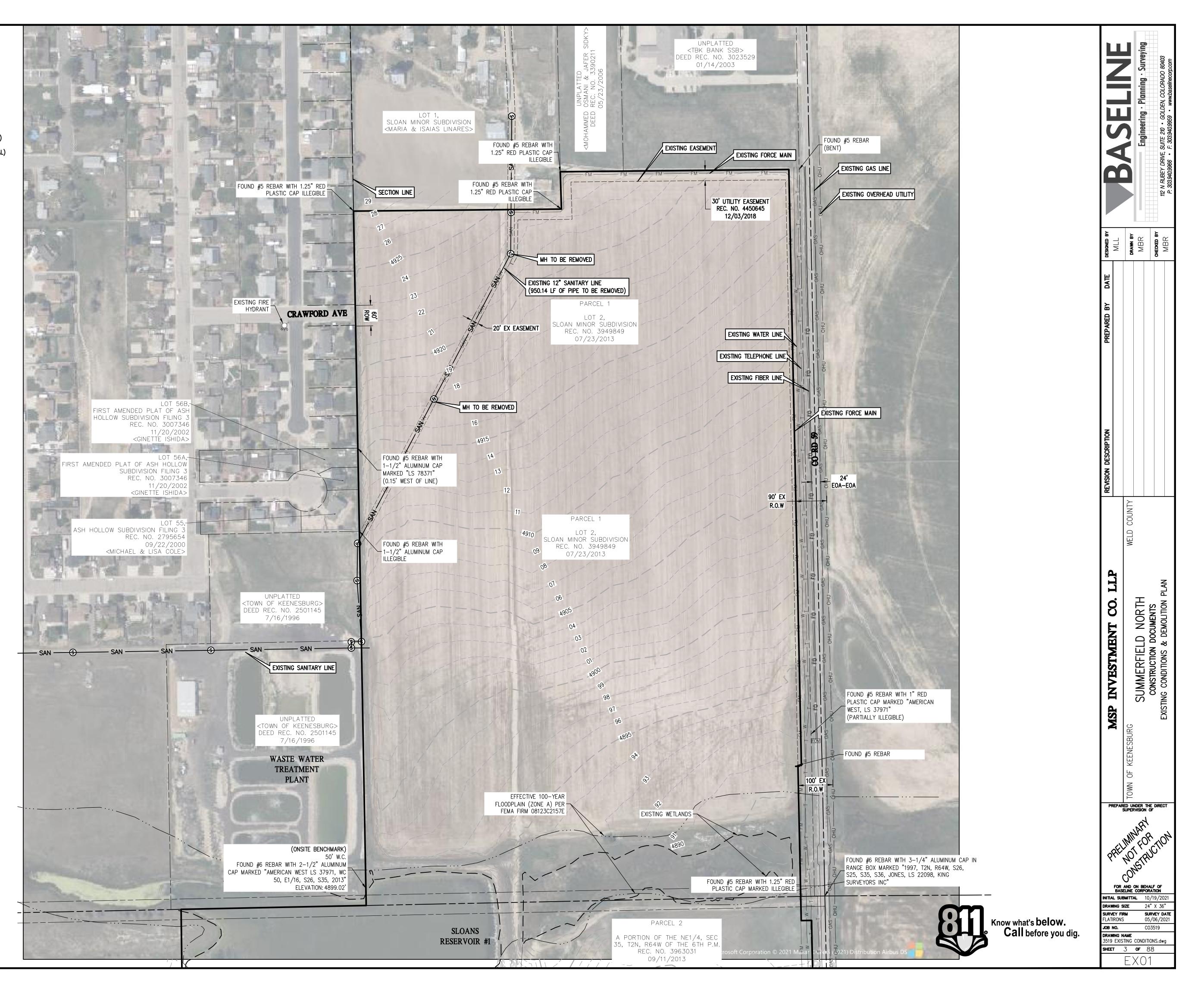
SANITARY MANHOLE FIRE HYDRANT

NOTES:

1.

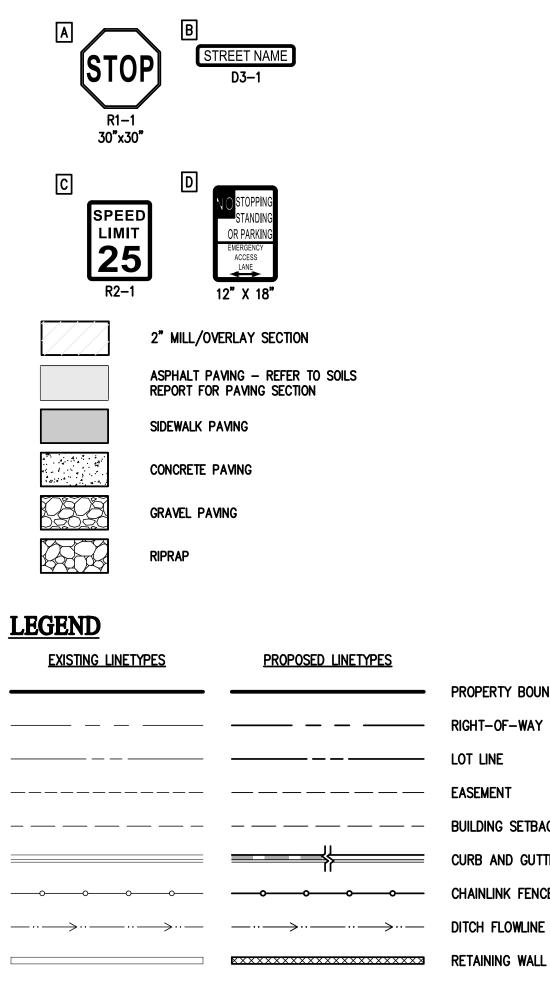
IT IS THE OWNER AND/OR THE CONTRACTORS RESPONSIBILITY TO ATTAIN ALL APPROPRIATE PERMITS AND REVIEW APPROVALS FROM THE TOWN OF KEENSBURG RESPECTIVELY.





#### NOTES:

- 1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVISES (MUTCD), AND THE COLORADO SUPPLEMENTAL MUTCD. FURTHER SPECIFICATIONS AND ILLUSTRATIONS ARE LOCATED IN THE COLORADO DIVISION OF HIGHWAYS M AND S STANDARDS. 2. A FIELD INSPECTION OF LOCATIONS AND INSTALLATION OF ALL SIGNS SHALL BE PREFORMED
- BY THE TOWN OF KEENESBURG. ALL DISCREPANCIES IDENTIFIED DURING THE FIELD INSPECTION MUST BE CORRECTED BEFORE THE TWO-YEAR WARRANTY PERIOD WILL BEGIN. 3. THE CONTRACTOR INSTALLING SIGNS IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL
- UNDERGROUND UTILITIES. 4. TYPE III BARRICADES SHALL BE SET AT ENDS OF ROADWAYS SEPARATING FINISHED AND
- UNFINISHED CONSTRUCTION AREAS. 5. SPECIAL CARE SHALL BE TAKEN IN SIGN LOCATION TO ENSURE AN UNOBSTRUCTED VIEW OF
- EACH SIGN. 6. A 7-FOOT MINIMUM POST LENGTH SHALL BE MAINTAINED FROM BOTTOM OF SIGN PANEL TO THE SIDEWALK FOR ALL SIGNS IN AREAS OF PEDESTRIAN TRAFFIC.
- 7. LATERAL OFFSET SHALL BE A MINIMUM OF 4 FEET FROM FLOWLINE OF LOCAL ROADWAYS
- 8. DELINEATION OF ROADWAYS SHALL BE AS SPECIFIED IN THE COLORADO M AND S MANUAL. 9. PAVEMENT MARKINGS IN FINAL ASPHALT LIFT SHALL BE INLAID TAPE (3M-5730 SERIES) OR
- EQUIVALENT. 10. REFER TO PHOTOMETRIC PLAN (BY OTHERS) FOR STREET LIGHTING DESIGN AND FINAL LOCATIONS.
- 11. ALL SIGNAGE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH STATE MODEL TRAFFIC CODE.



PROPERTY BOUNDARY

RIGHT-OF-WAY

BUILDING SETBACK

CHAINLINK FENCE

**RETAINING WALL** 

EDGE OF GRAVEL

CURB AND GUTTER (SPILL/CATCH)

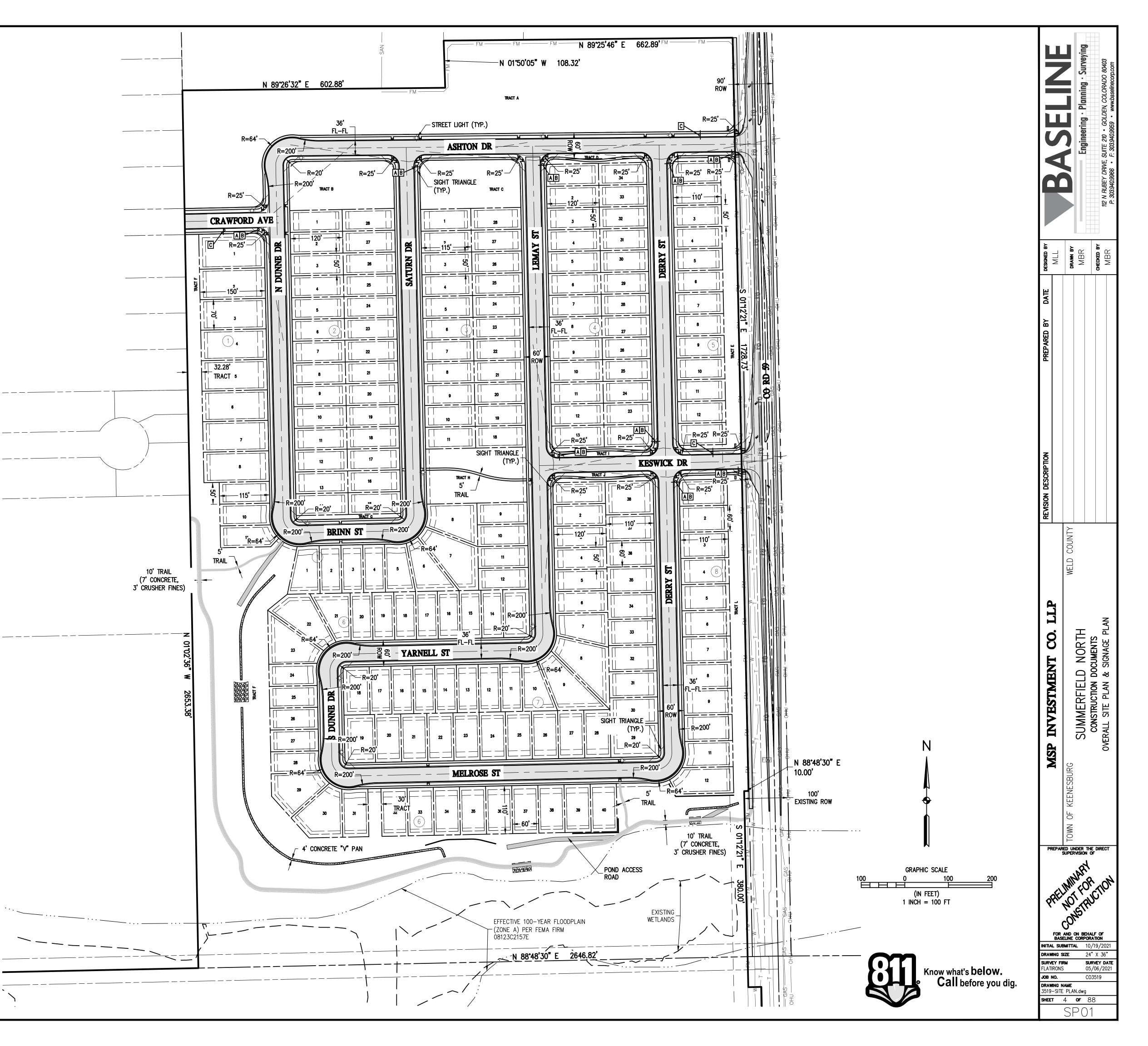
LOT LINE

EASEMENT

EXISTING PROPOSED SYMBOLS SYMBOLS

-ờ-

	•
Ø	POWER POLE
<del></del> -	SIGN
*	LIGHT POLE



LEGEND
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EXISTING LINETY	PES	PROPOSED LINETYPES	
			PROPERTY BOUNDARY
			RIGHT-OF-WAY
	=		LOT LINE
			EASEMENT
			EDGE OF ASPHALT
			EDGE OF GRAVEL
	!		CURB AND GUTTER (SPILL/CATCH)
W V	N	w	WATER LINE
WS V	NS — -	WS	WATER SERVICE
SAN S	SAN — –	SAN	SANITARY SEWER MAIN
SS S	ss ———     •	SS	SANITARY SEWER SERVICE
FM F	- M	FM	FORCE MAIN
ST S	ST ——— I		STORM SEWER

EXISTING PROPOSED SYMBOLS SYMBOLS

STMBOLS	SAMBORS	
S	S	SANITARY MANHOLE
$\overset{\circledast}{\boxtimes}$	M	WATER VALVE
		WATER METER
Фүү	Ô	FIRE HYDRANT
(W)	W	WATER MANHOLE
	ı	WATER BEND
	1-1	WATER TEE AND CROSSING
	0	CURB STOP
-;석-	<b>\</b>	LIGHT POLE
<u> </u>	0	TYPE 'R' INLET
$\bigcirc$	D	STORM DRAIN MANHOLE

#### NOTES:

1. ALL PROPOSED WATER LINES SHALL HAVE 4.5' MINIMUM COVER.

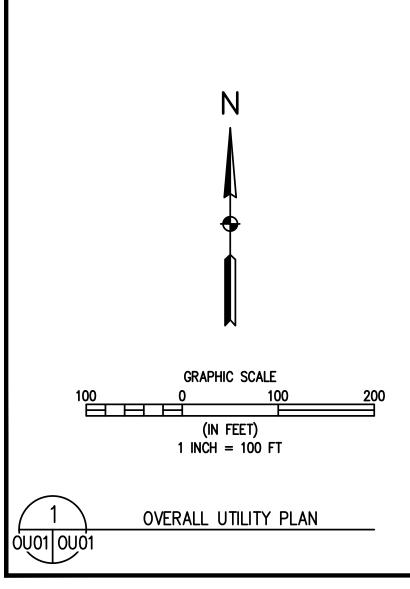
2. ALL WATER PIPES SHALL BE CLASS C-900 PVC. MAINS SHALL BE 8"

DIAMETER, FIRE HYDRANT LATERALS SHALL BE 6". 3. ALL PROPOSED WATER SERVICE LINE PIPES SHALL BE POLY MATERIAL (PRESSURE RATED TO 150 PSI).

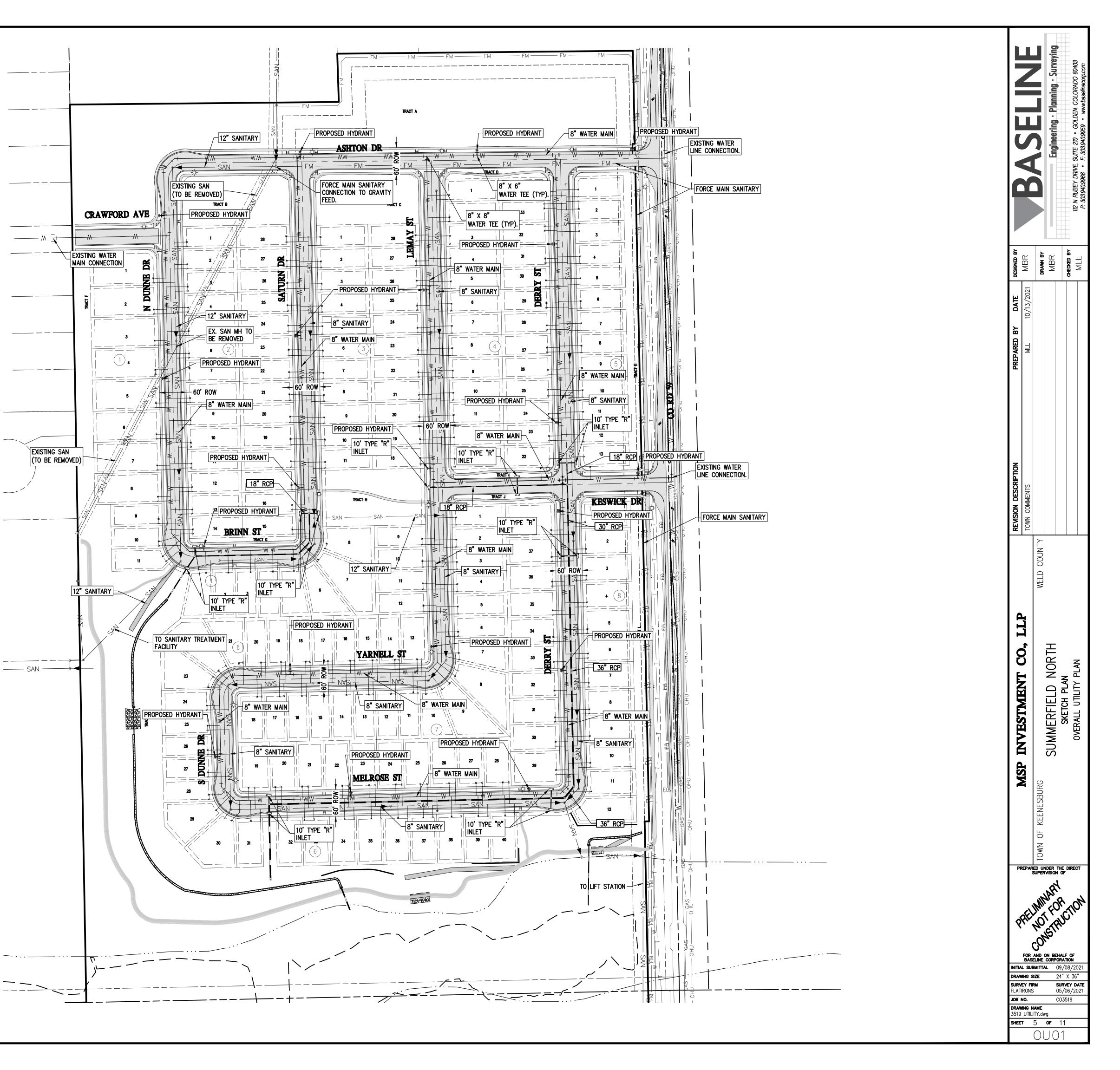
4. ALL PROPOSED SANITARY LINES SHALL HAVE 4.0' MINIMUM COVER AT

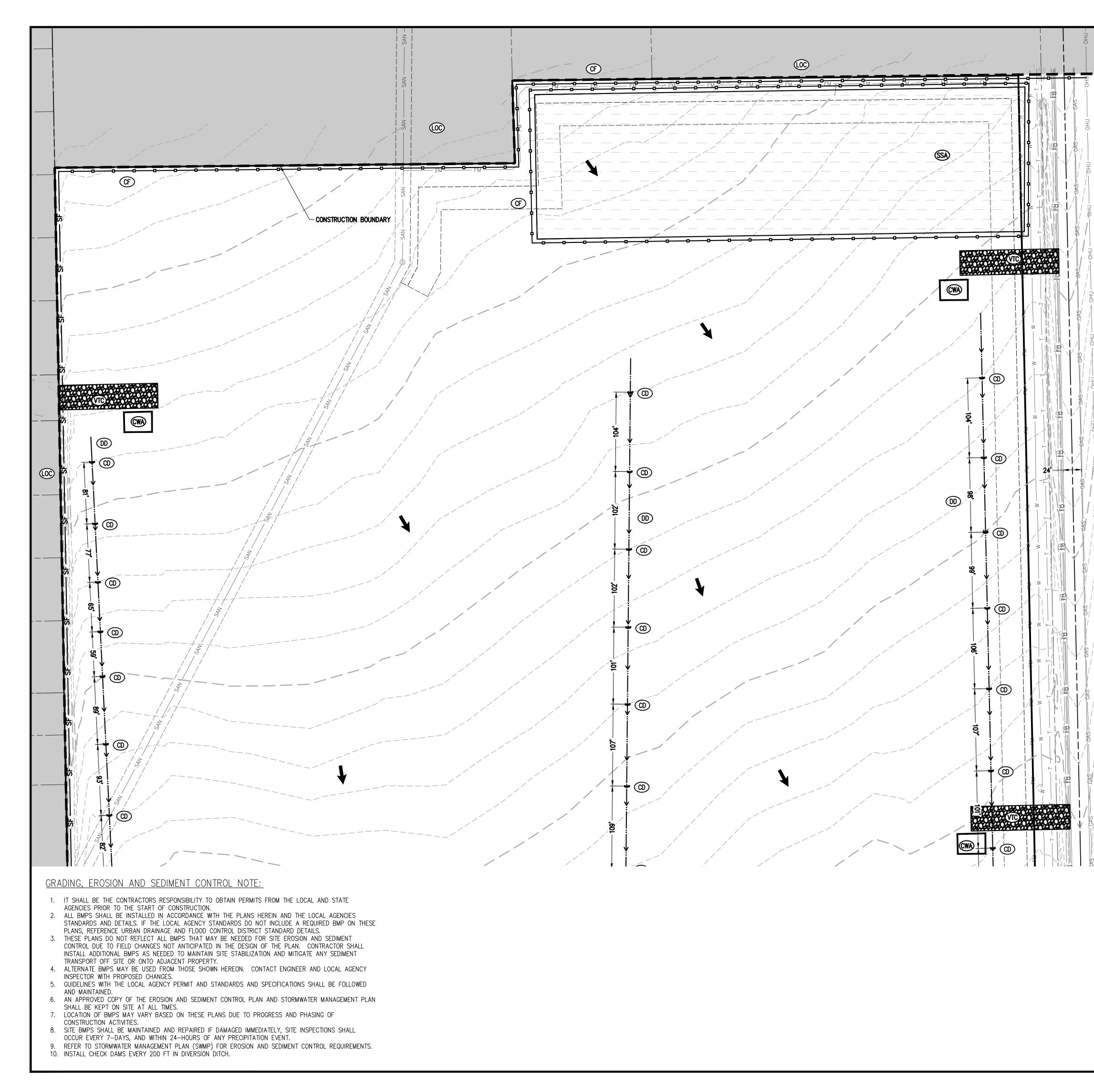
THE CONNECTION THE BUILDING AND AT CLEANOUTS. 5. SANITARY SEWER LINES SHALL BE AS NOTED ON PLANS.

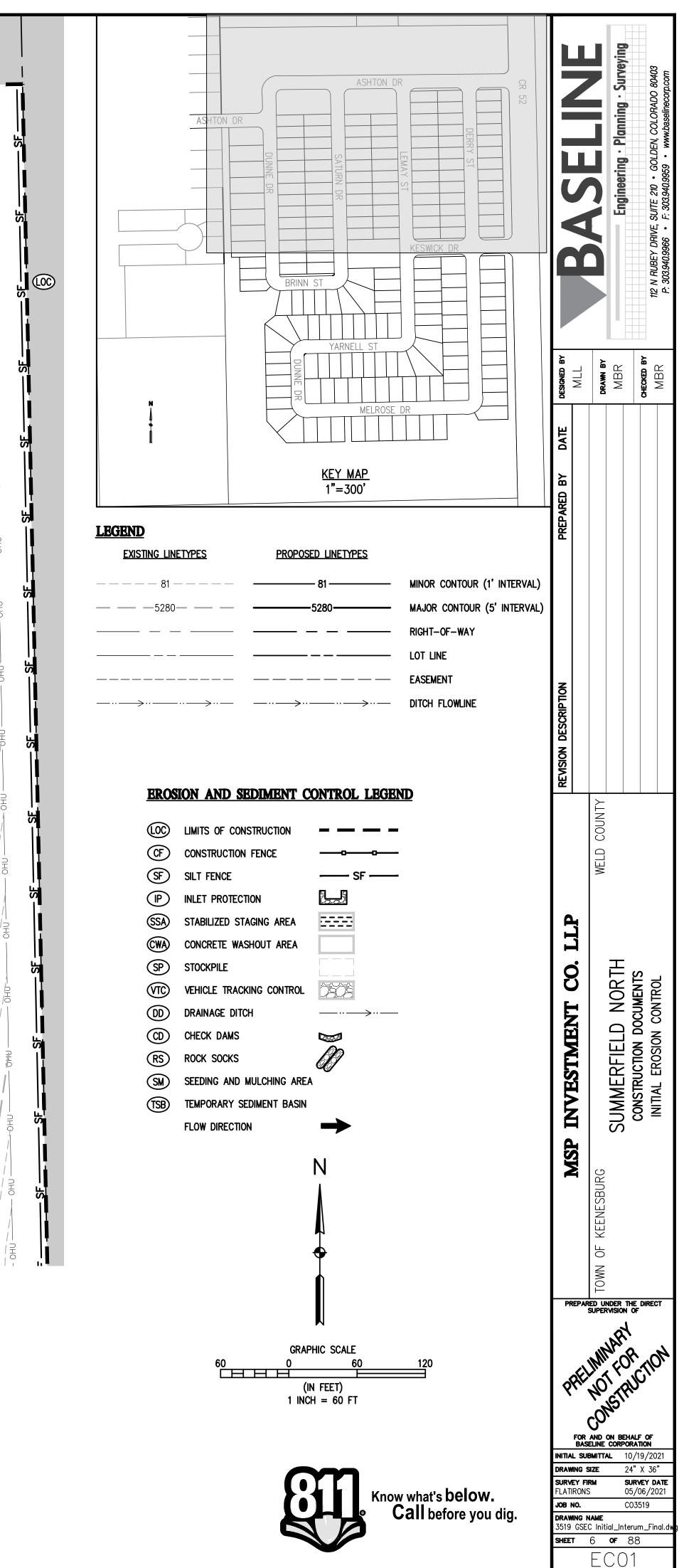
6. DRY UTILITIES, ELECTRIC AND LIGHTING TO BE DESIGNED BY OTHERS.

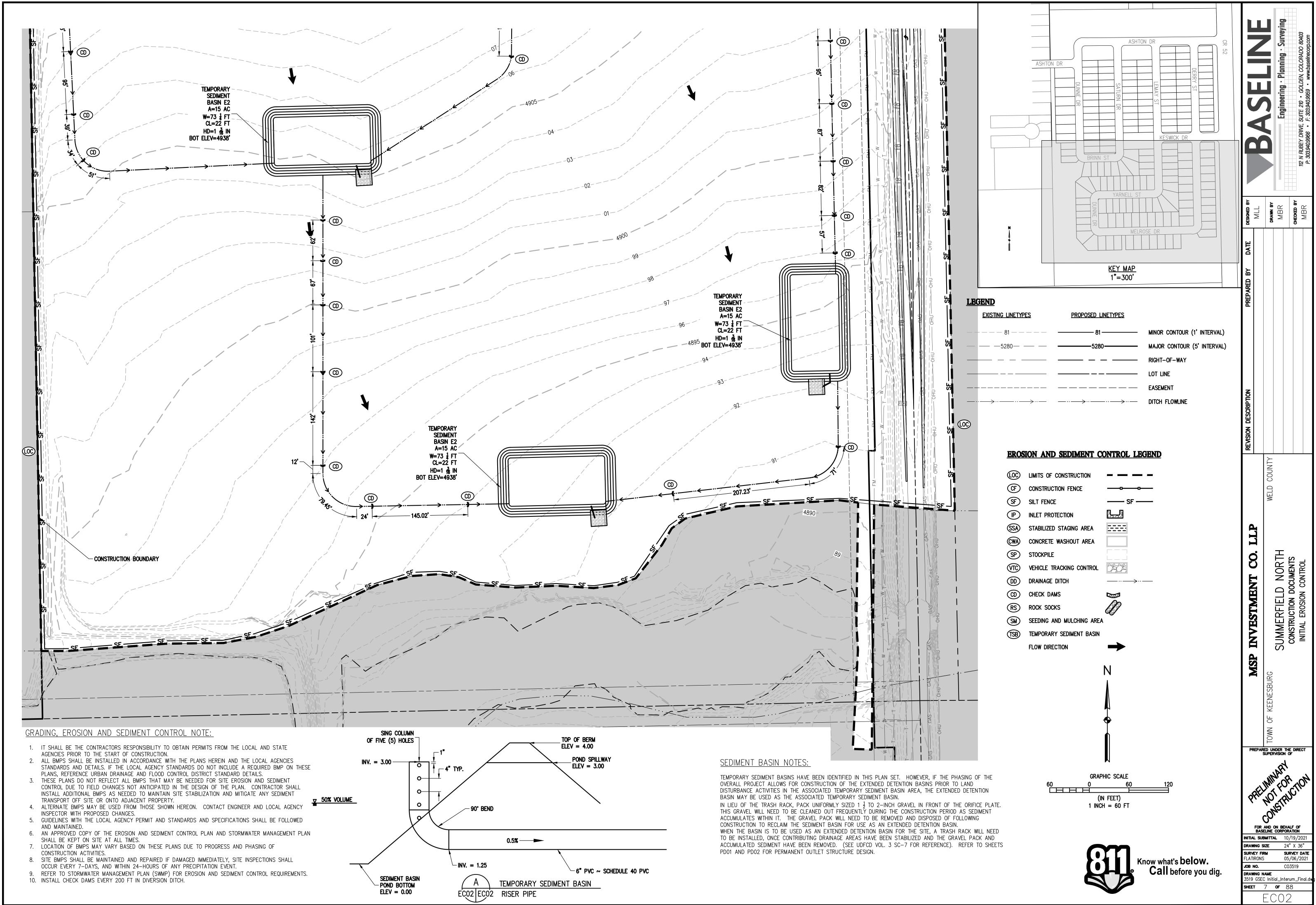


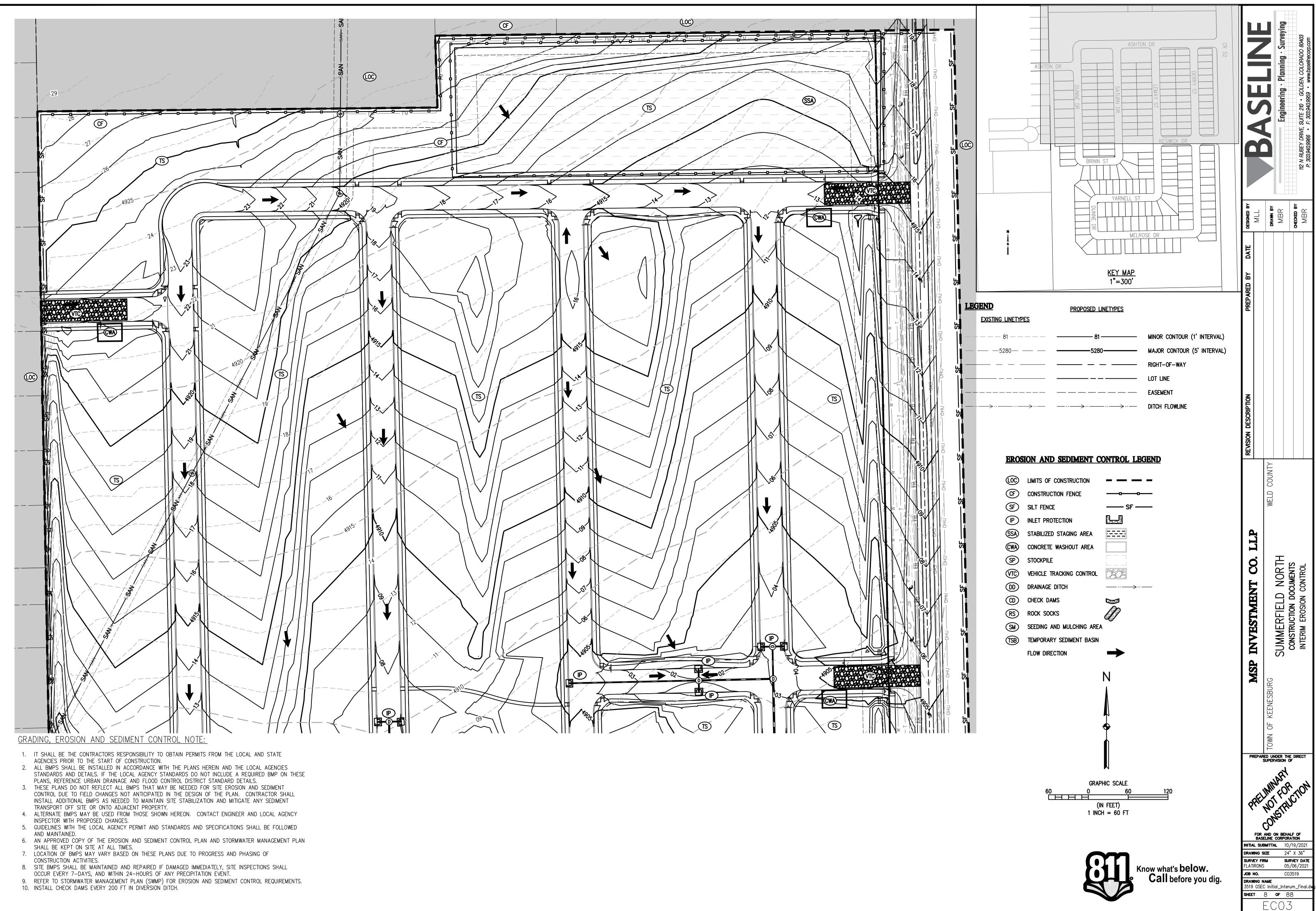
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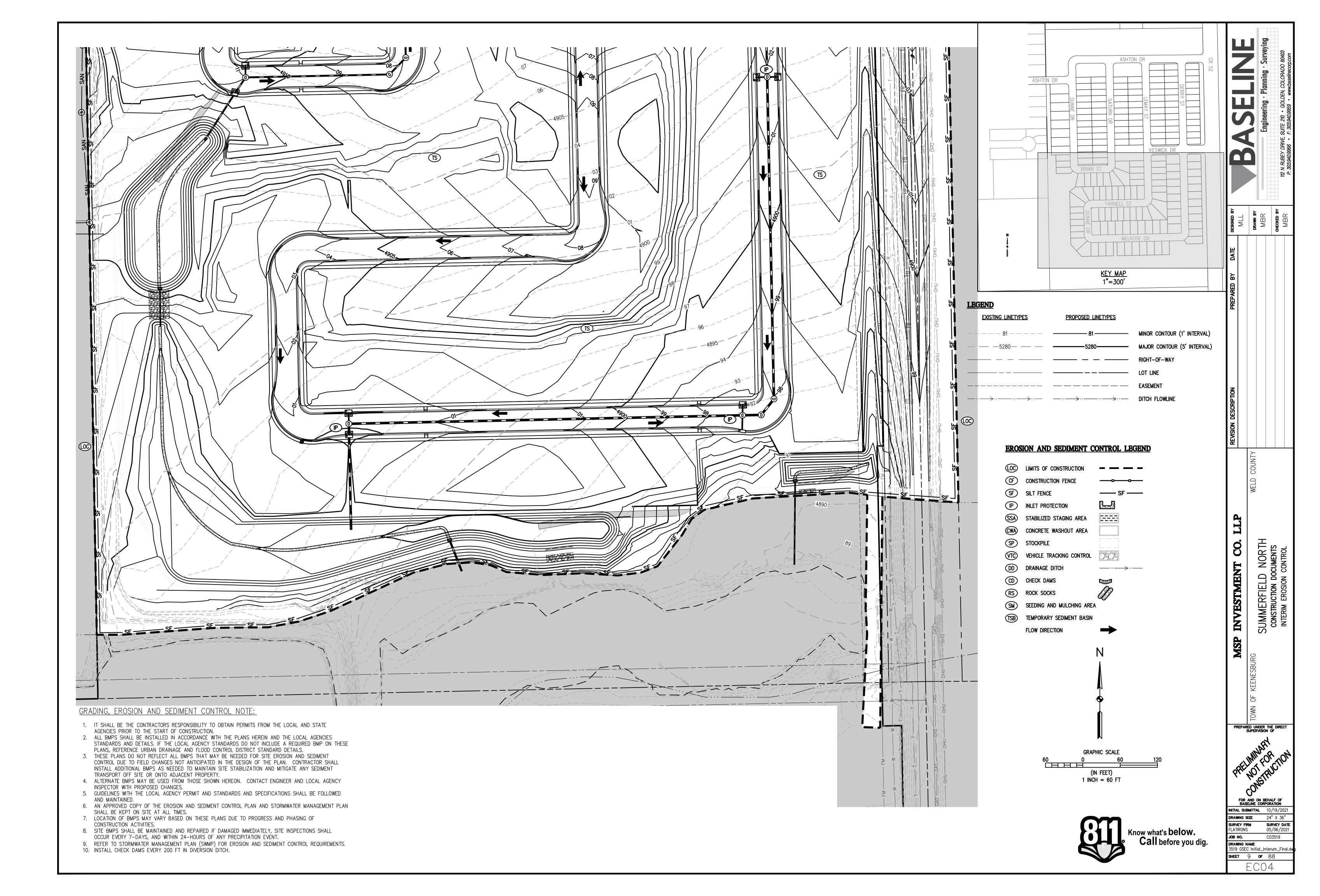


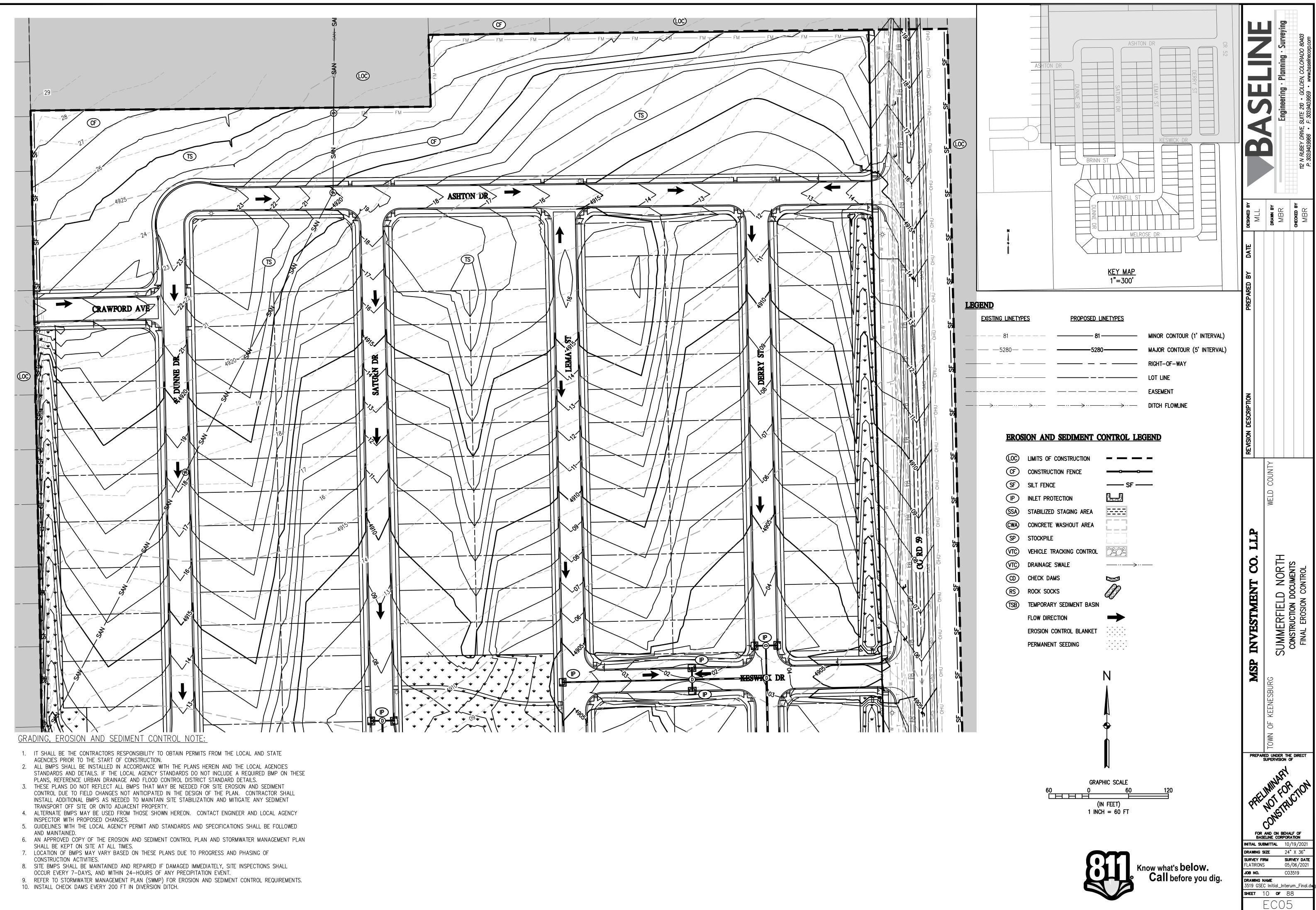


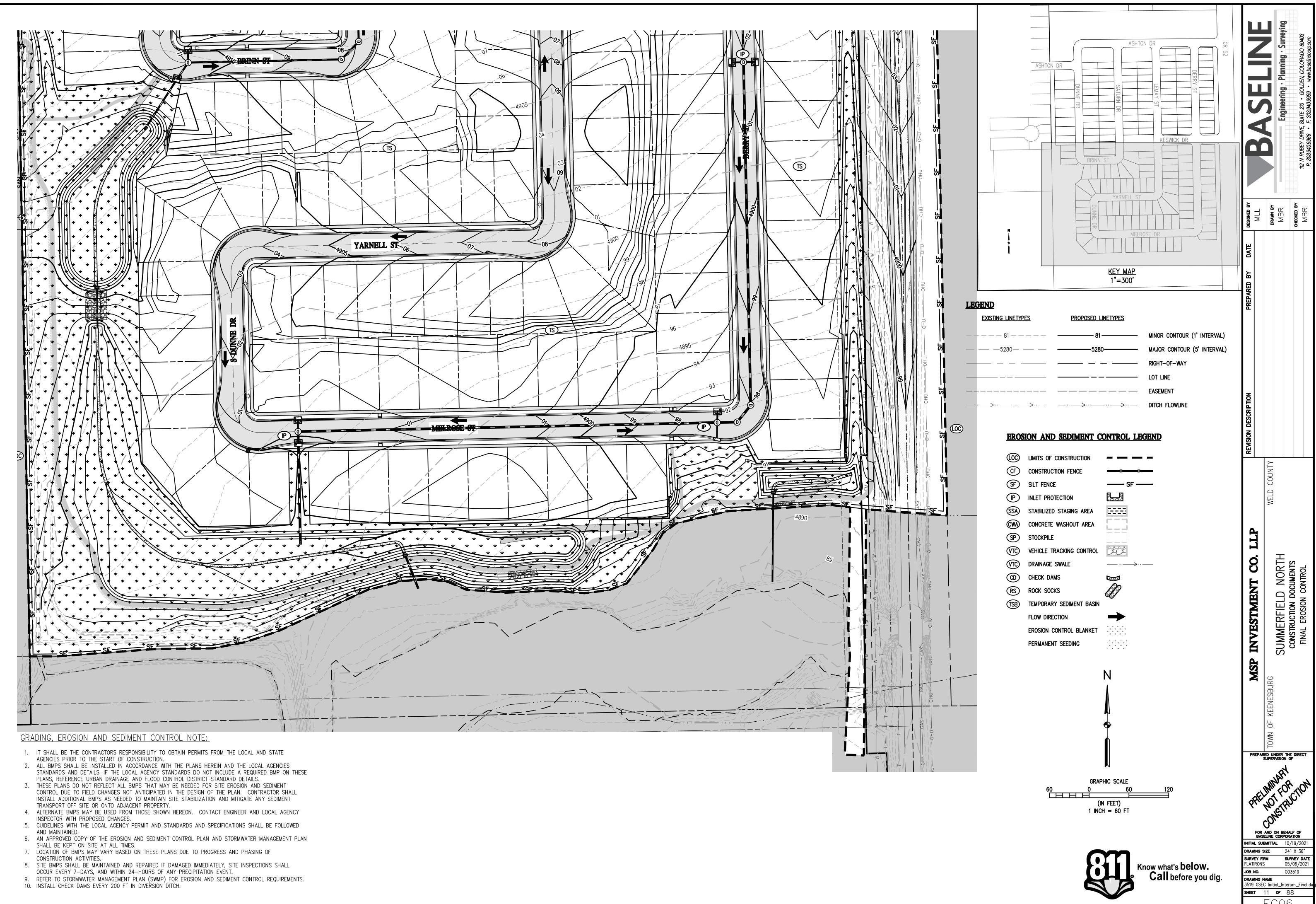




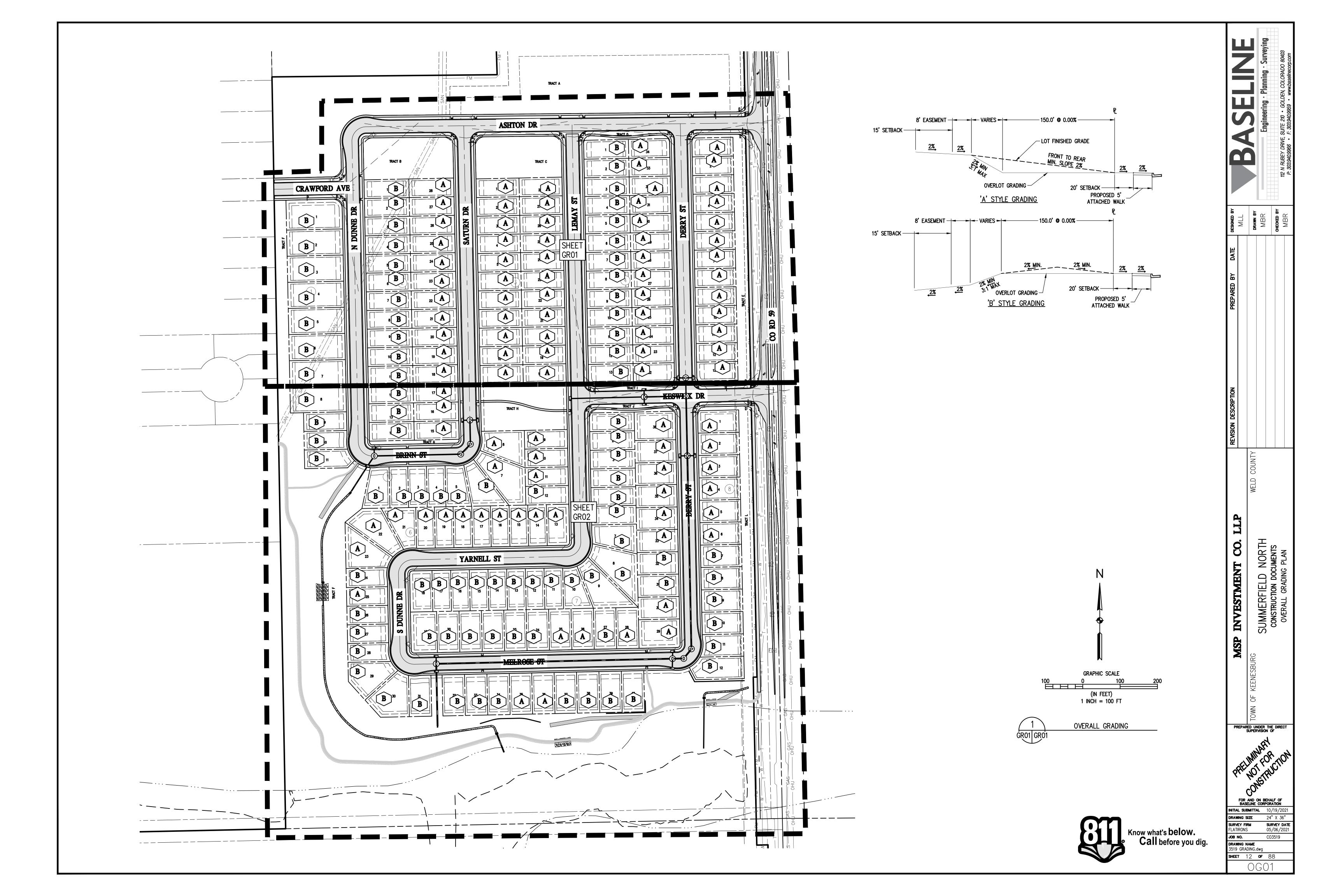


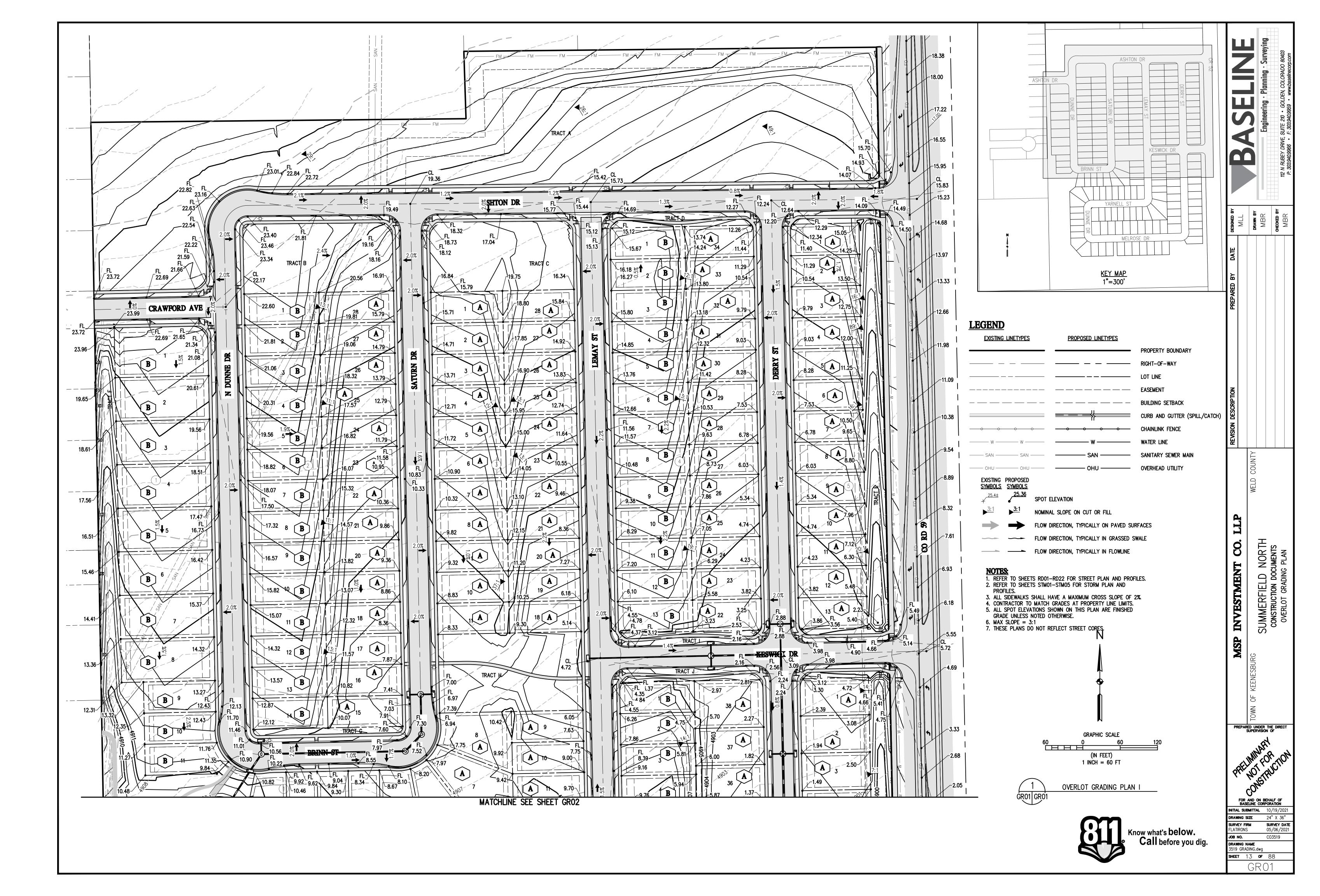


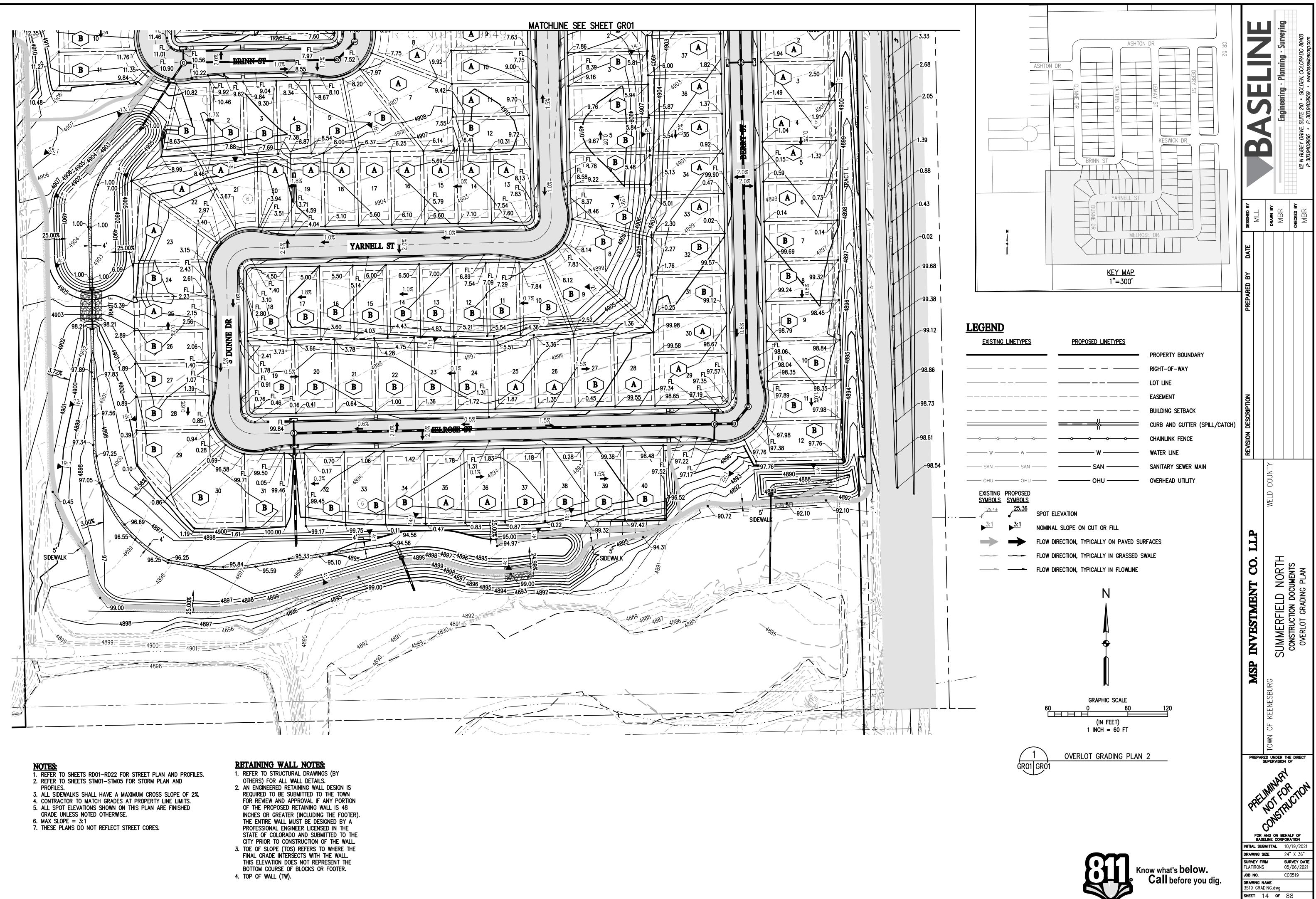




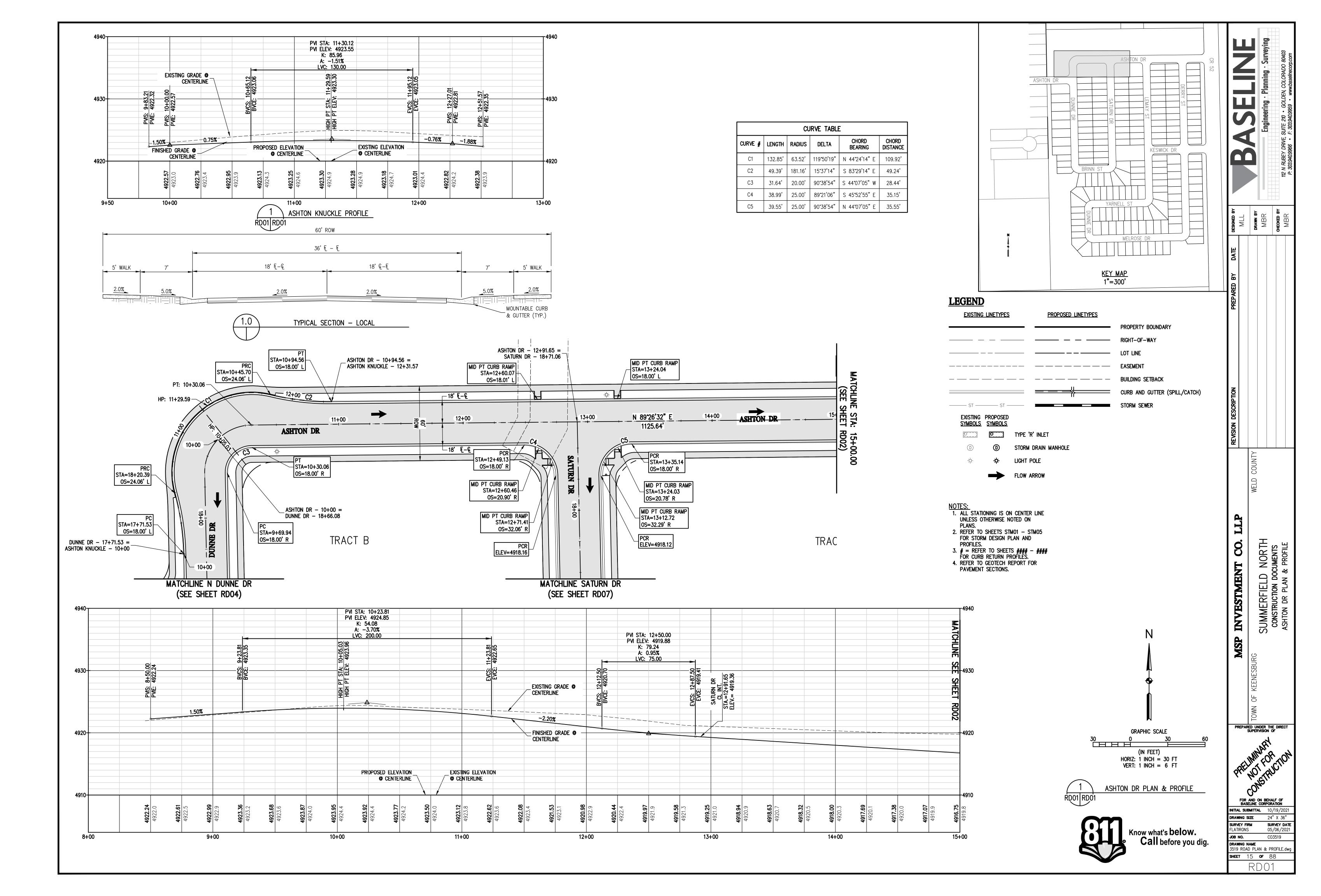
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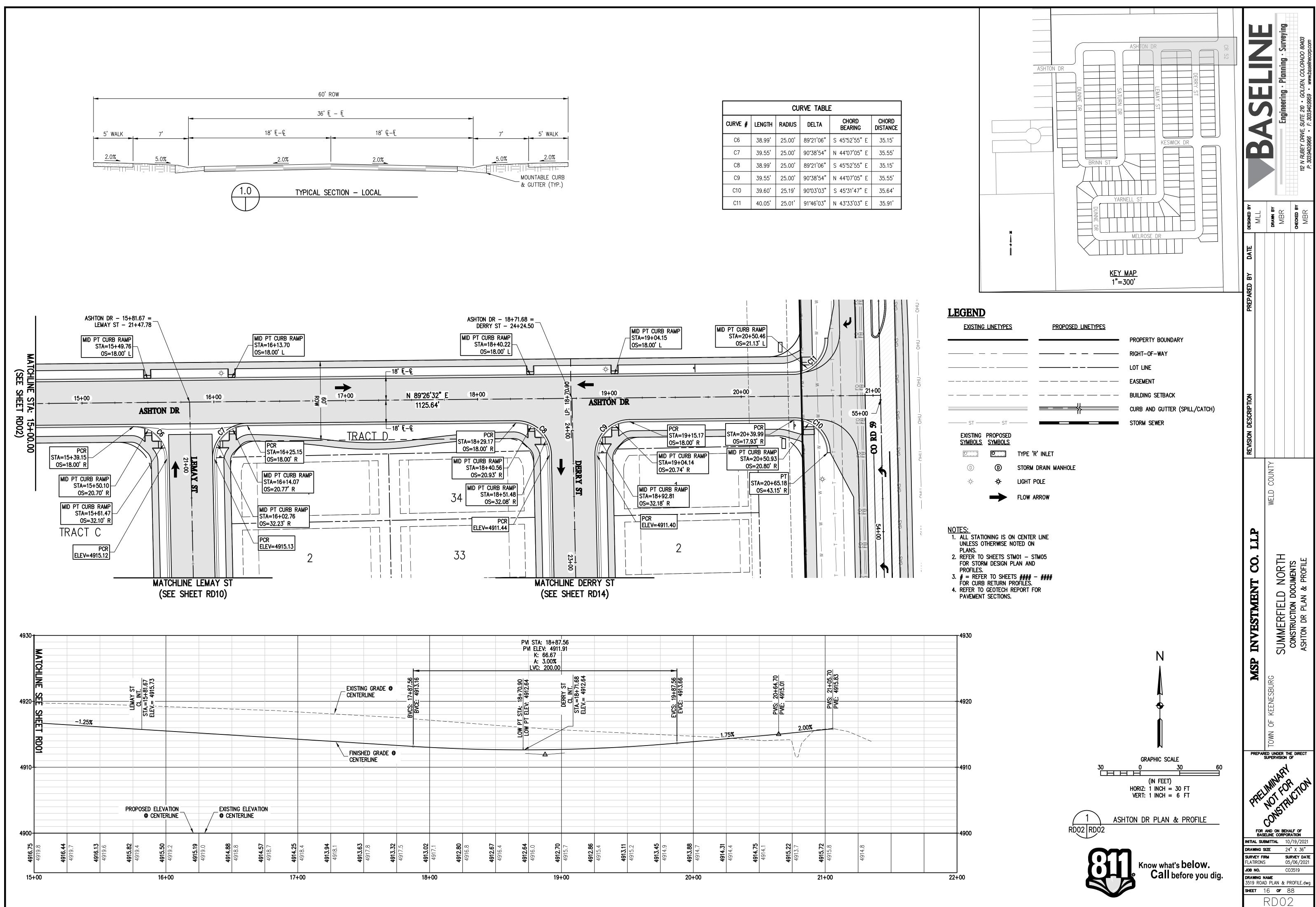




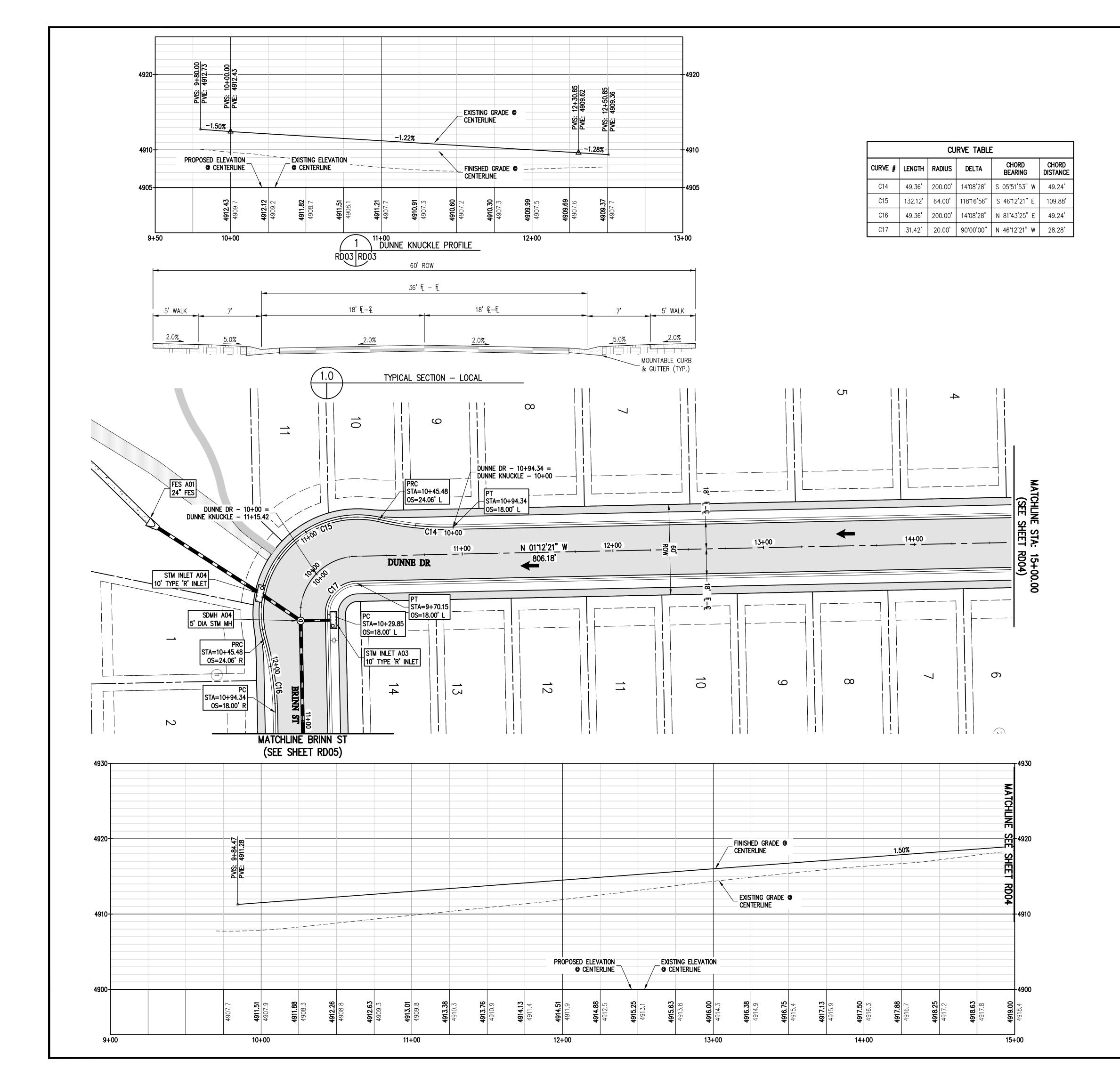


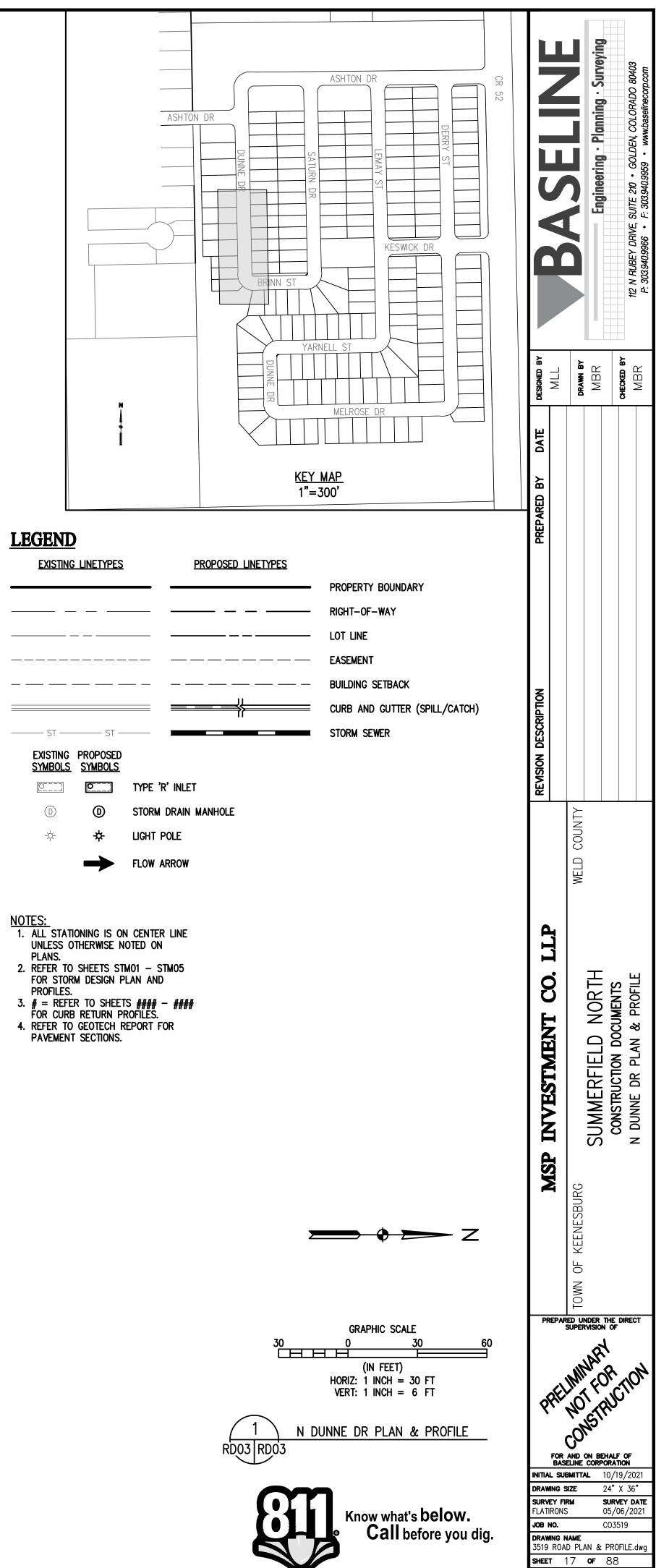
GR02



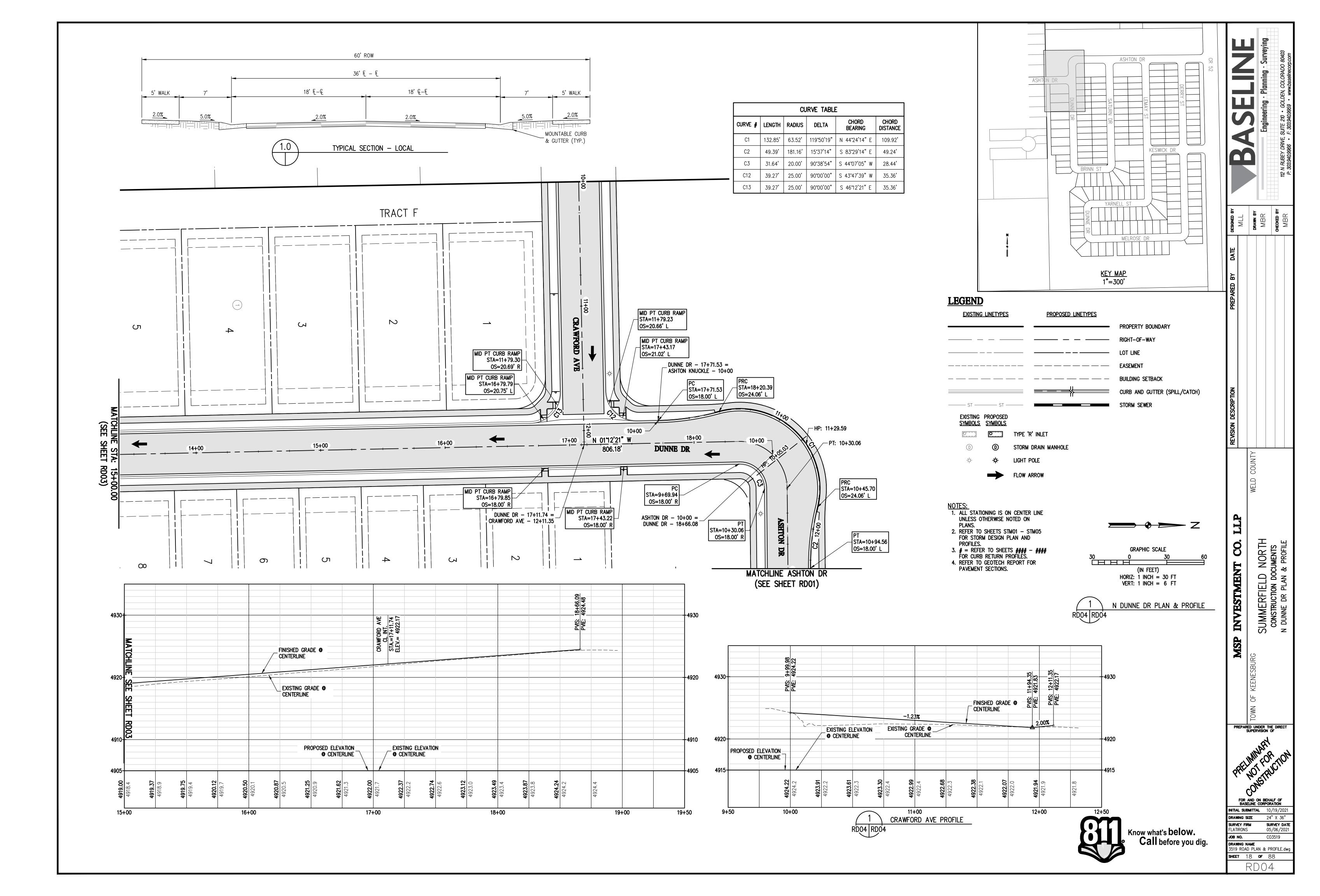


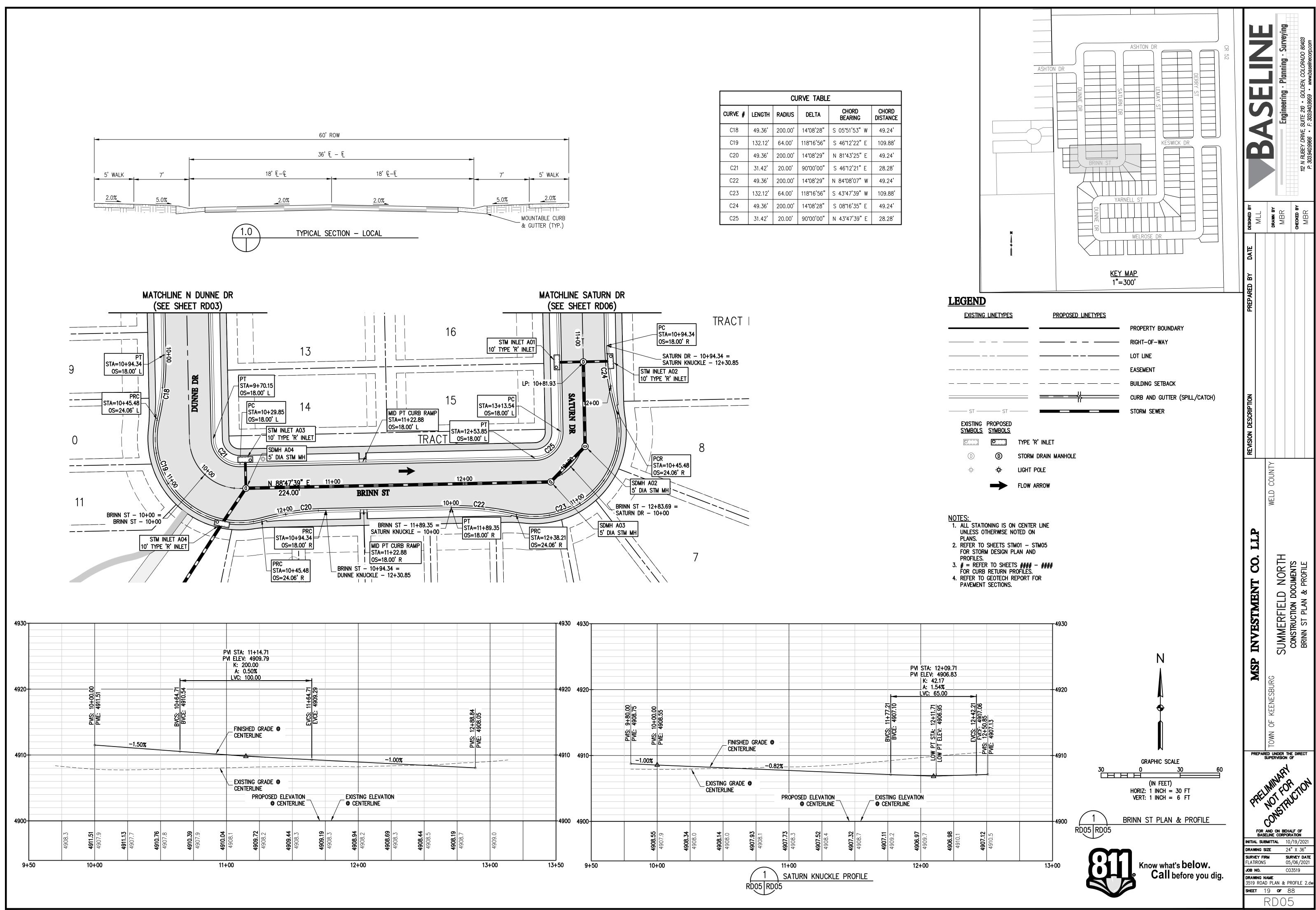
	CURVE TABLE							
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE			
C6	38.99'	25.00'	89°21'06"	S 45°52'55" E	35.15'			
C7	39.55'	25.00'	90 <b>°</b> 38'54"	N 44°07'05" E	35.55'			
C8	38.99'	25.00'	89°21'06"	S 45°52'55" E	35.15'			
C9	39.55'	25.00'	90 <b>°</b> 38'54"	N 44°07'05" E	35.55'			
C10	39.60'	25.19'	90 <b>°</b> 03'03"	S 45°31'47" E	35.64'			
C11	40.05'	25.01'	91°46'03"	N 43°33'03" E	35.91'			



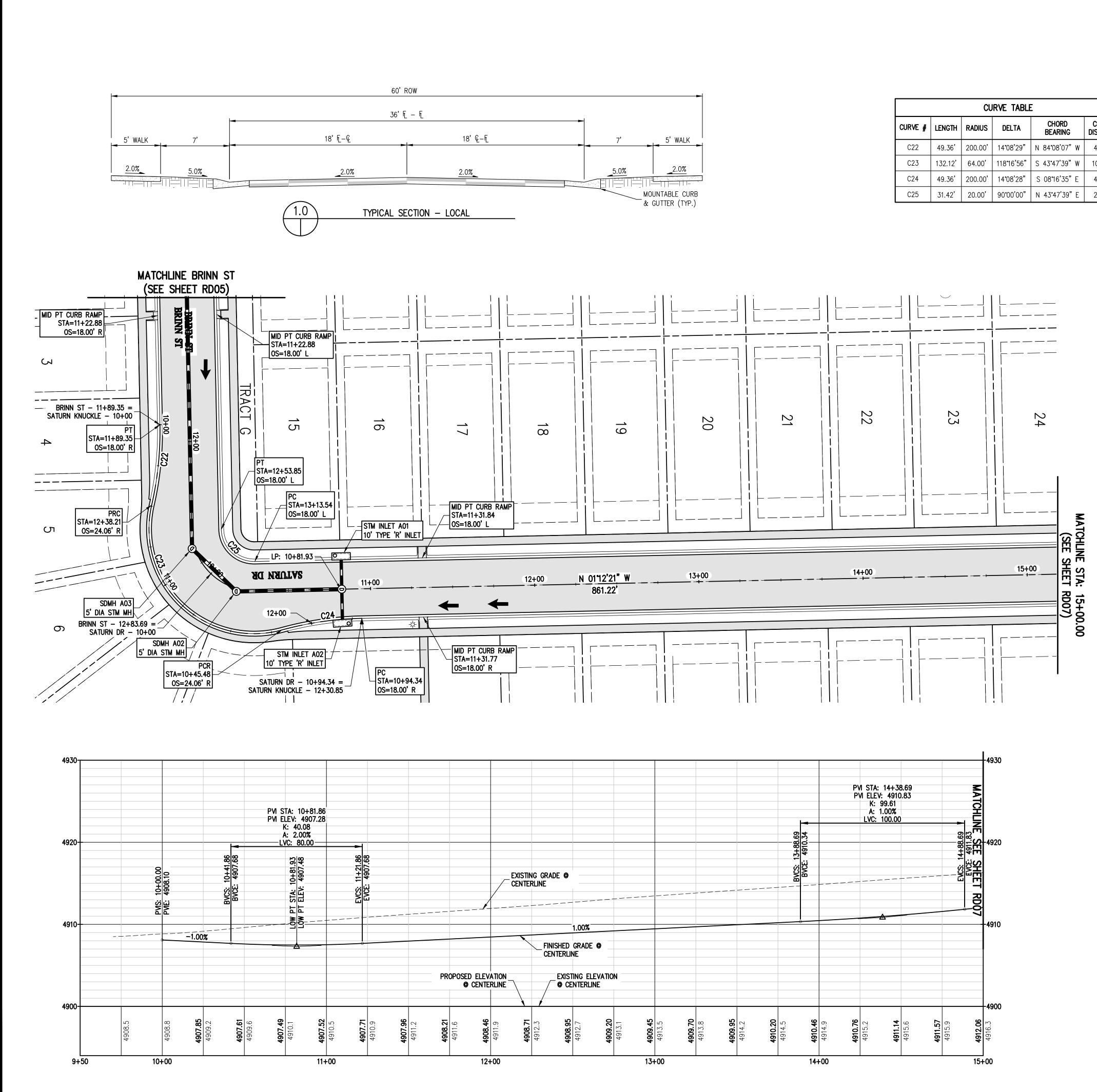


RD03

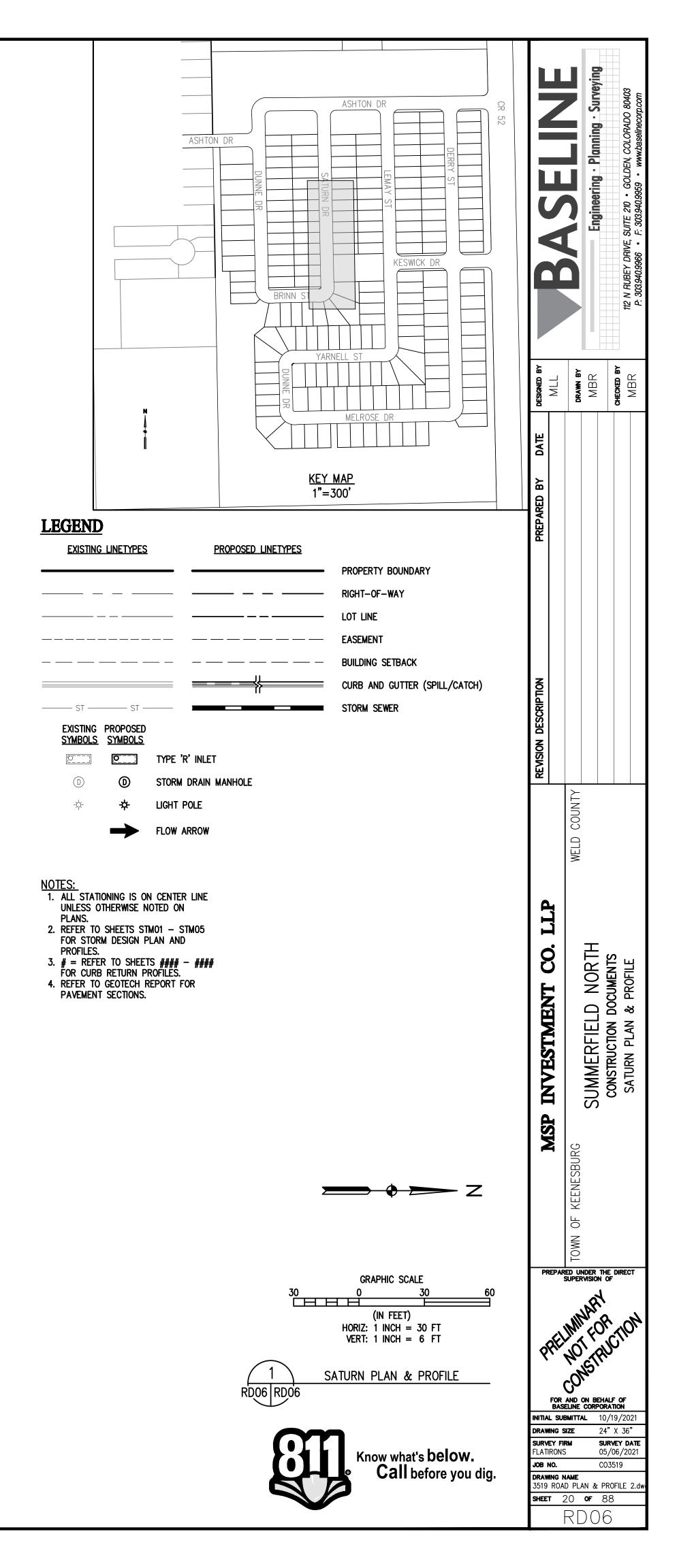


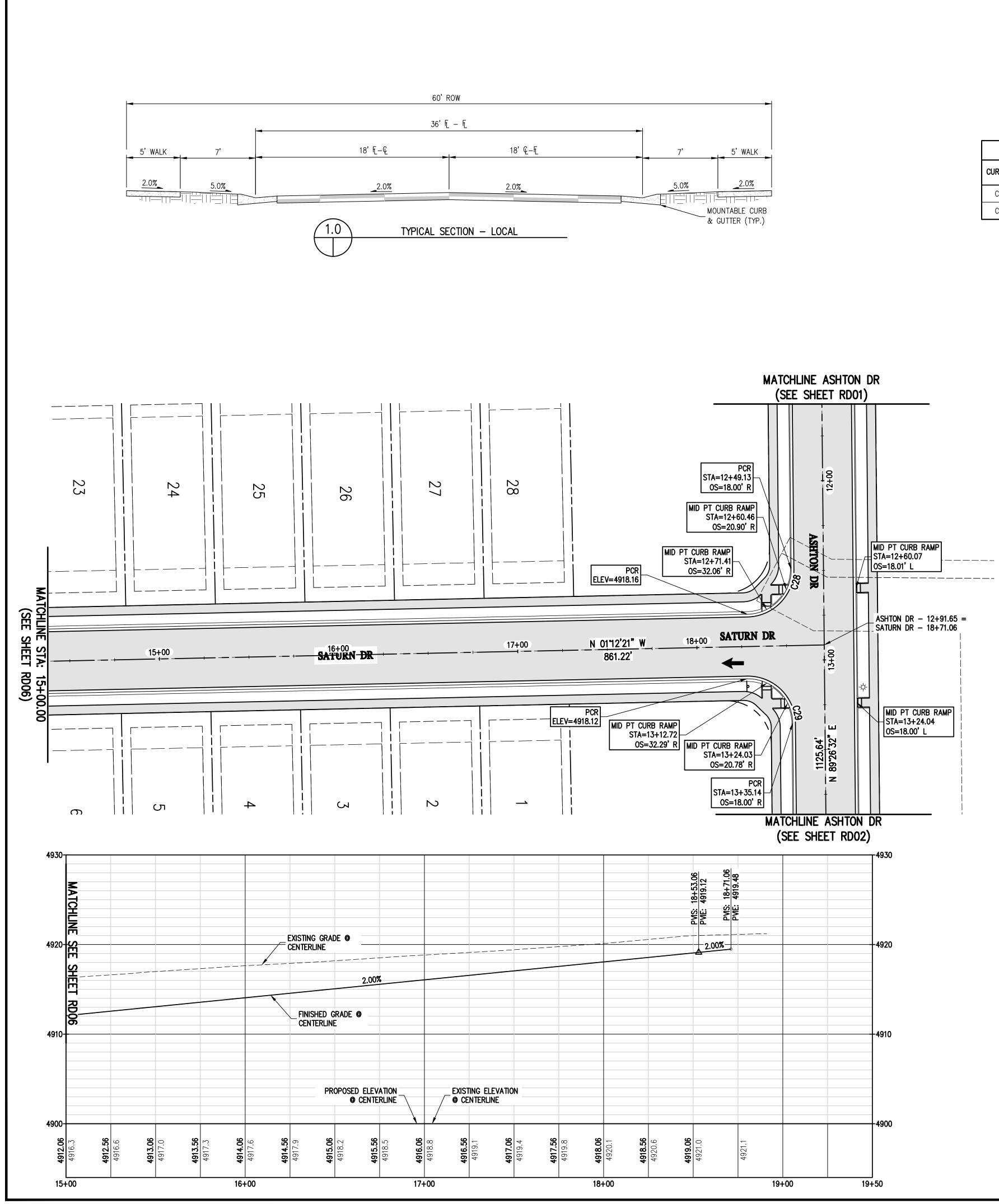


CURVE TABLE						
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE	
C18	49.36'	200.00'	14 <b>°</b> 08'28"	S 05°51'53" W	49.24'	
C19	132.12'	64.00'	118 <b>°</b> 16'56"	S 46°12'22" E	109.88'	
C20	49.36'	200.00'	14 <b>°</b> 08'29"	N 81°43'25" E	49.24'	
C21	31.42'	20.00'	90°00'00"	S 46"12'21" E	28.28'	
C22	49.36'	200.00'	14 <b>°</b> 08'29"	N 84°08'07" W	49.24'	
C23	132.12'	64.00'	118 <b>°</b> 16'56"	S 43°47'39"W	109.88'	
C24	49.36'	200.00'	14 <b>°</b> 08'28"	S 08°16'35" E	49.24'	
C25	31.42'	20.00'	90°00'00"	N 43°47'39" E	28.28'	

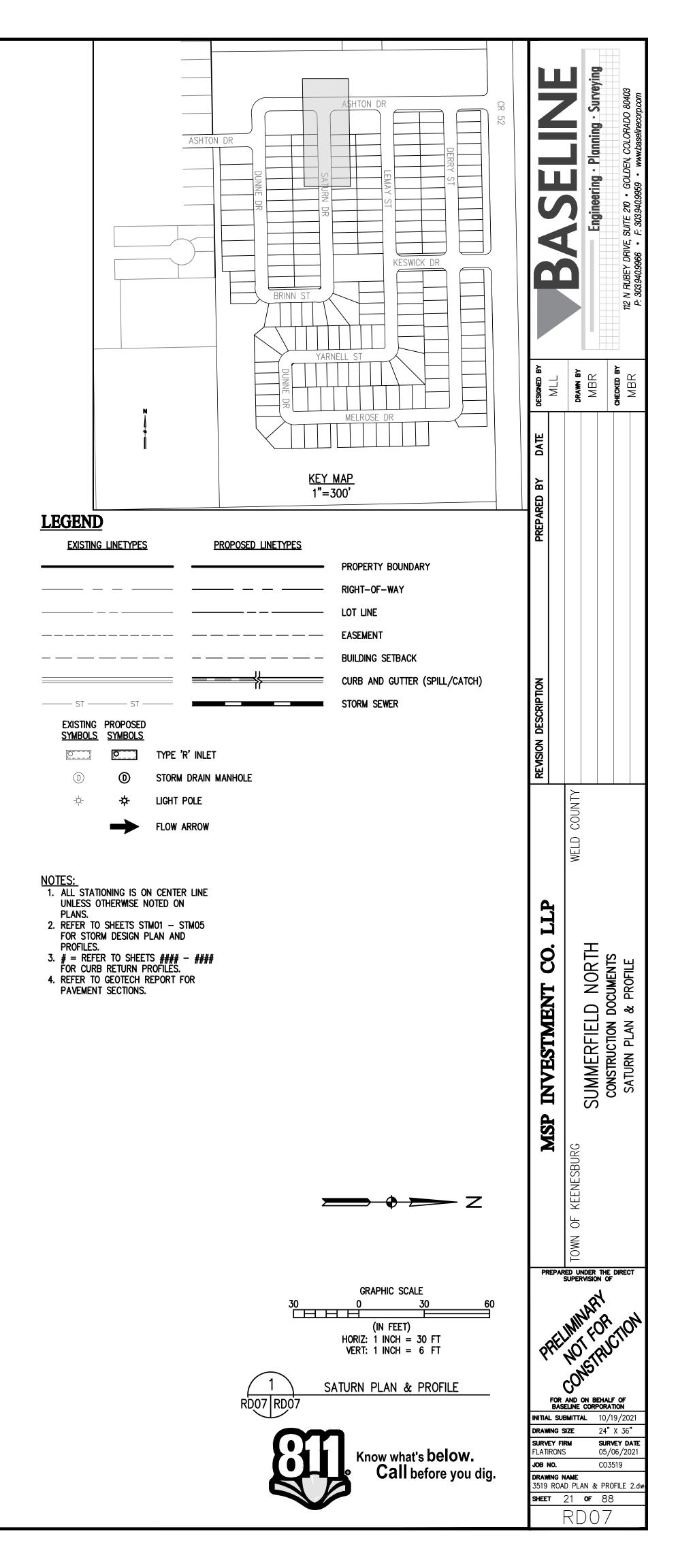


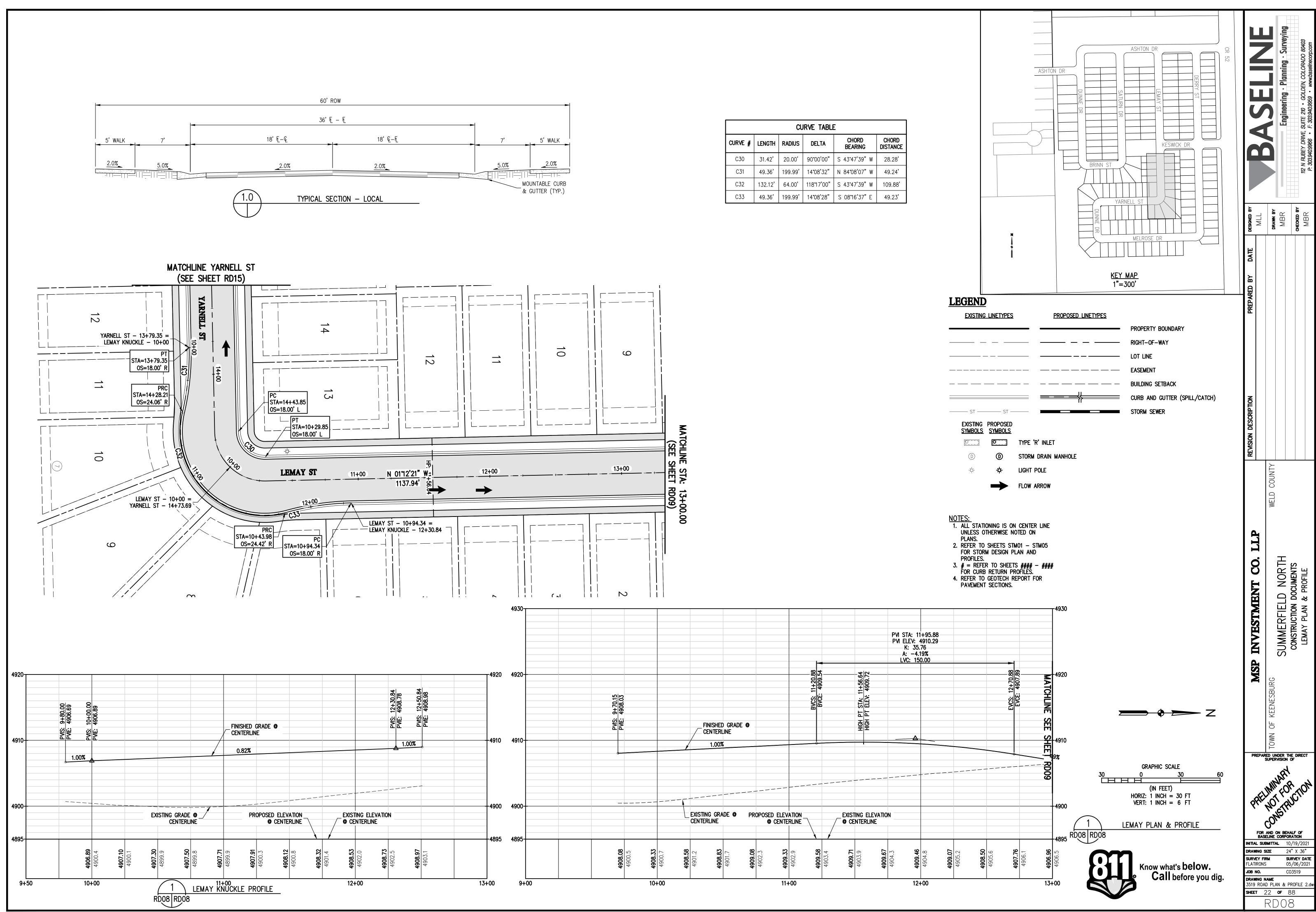
CURVE TABLE						
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C22	49.36 <b>'</b>	200.00'	14 <b>°</b> 08'29"	N 84°08'07" W	49.24'	
C23	132.12'	64.00'	118 <b>°</b> 16'56"	S 43°47'39" W	109.88'	
C24	49.36'	200.00'	14 <b>°</b> 08'28"	S 08°16'35" E	49.24'	
C25	31.42'	20.00'	90°00'00"	N 43°47'39" E	28.28'	



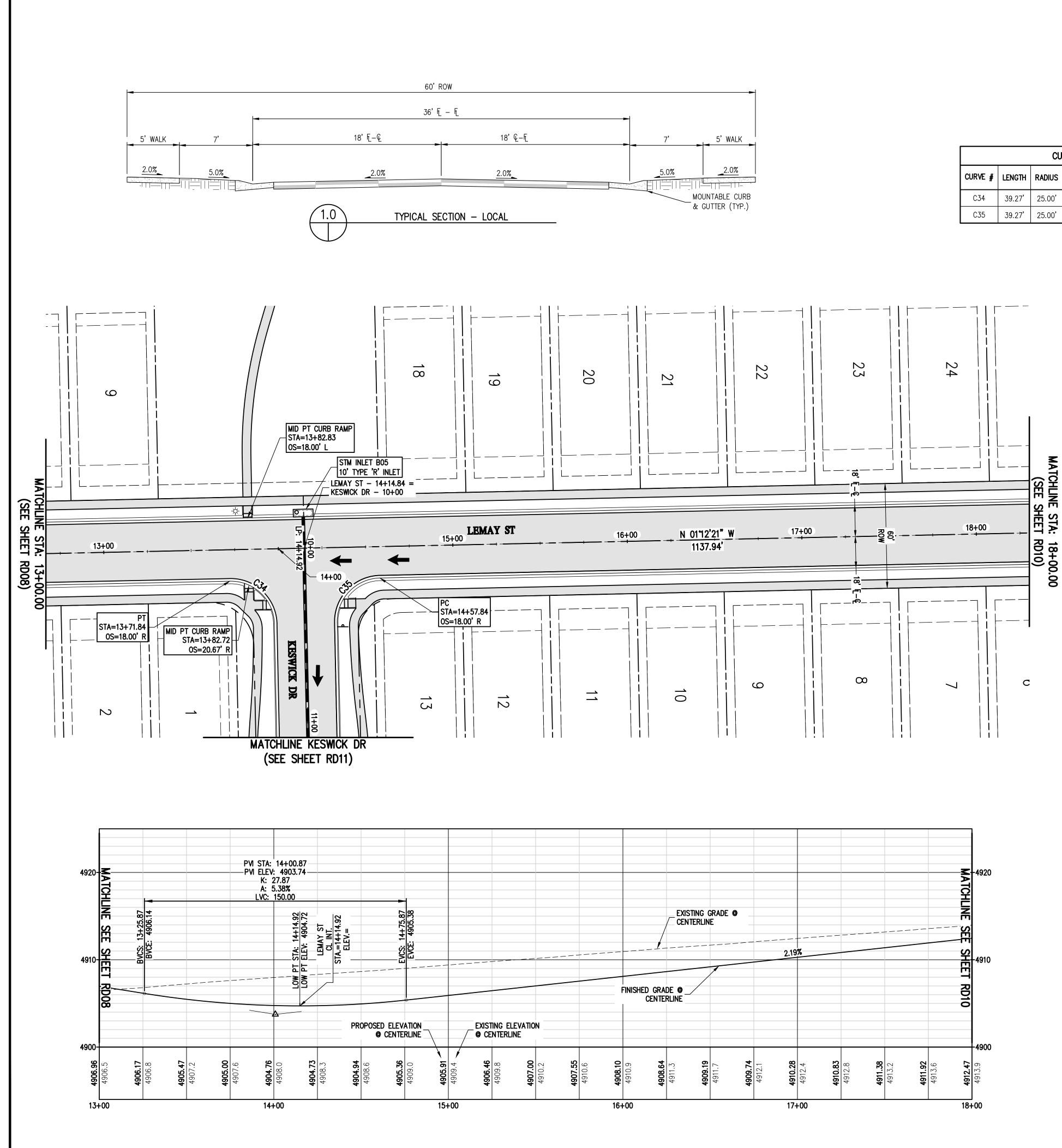


CURVE TABLE						
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE	
C28	38.99'	25.00'	89 <b>°</b> 21'06"	S 45°52'55" E	35.15'	
C29	39.55'	25.00'	90 <b>°</b> 38'54"	N 44°07'05" E	35.55'	

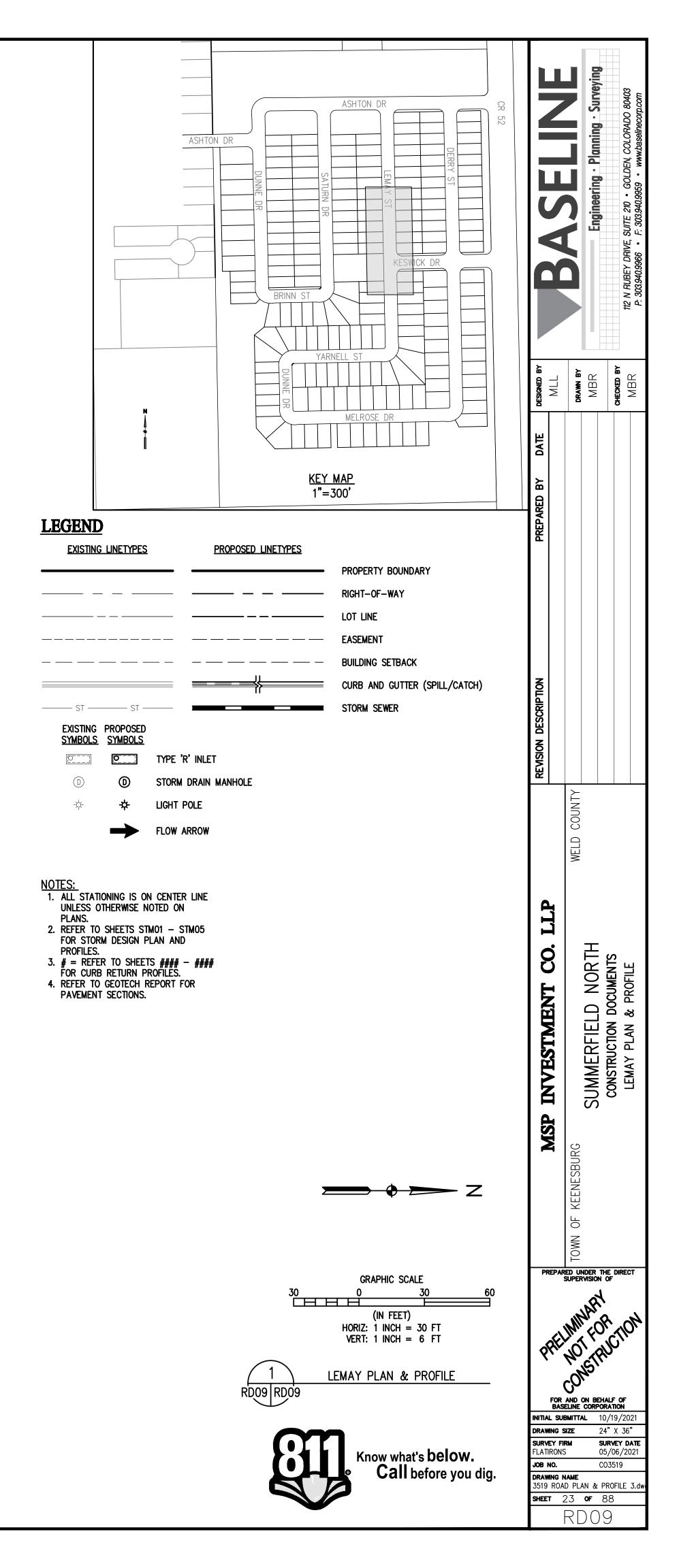


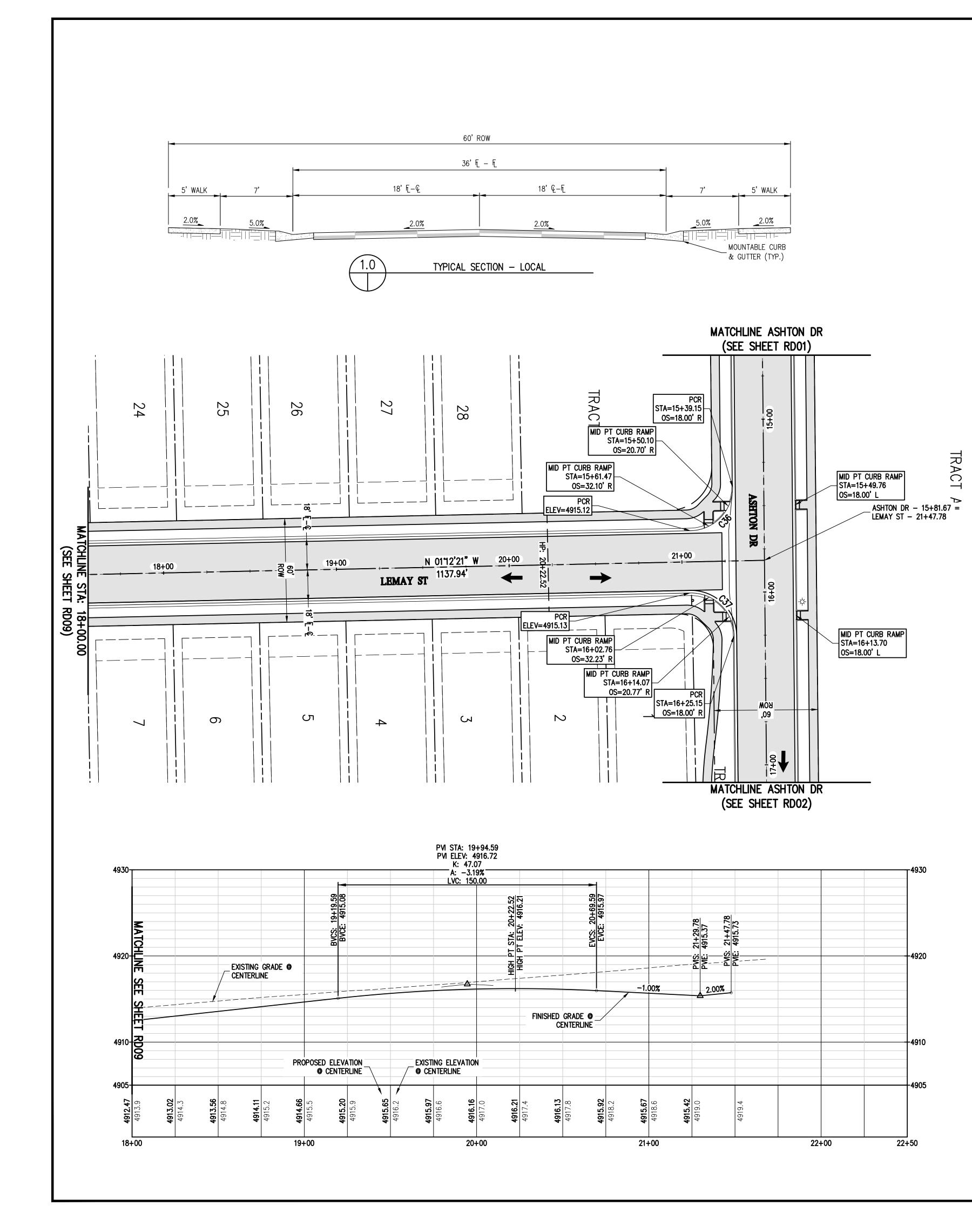


	CURVE TABLE							
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE			
C30	31.42'	20.00'	90 <b>°</b> 00'00"	S 43°47'39" W	28.28'			
C31	49.36'	199.99'	14 <b>°</b> 08'32"	N 84°08'07" W	49.24'			
C32	132.12'	64.00'	118 <b>°</b> 17'00"	S 43°47'39" W	109.88'			
C33	49.36'	199.99'	14 <b>°</b> 08'28"	S 08°16'37" E	49.23'			

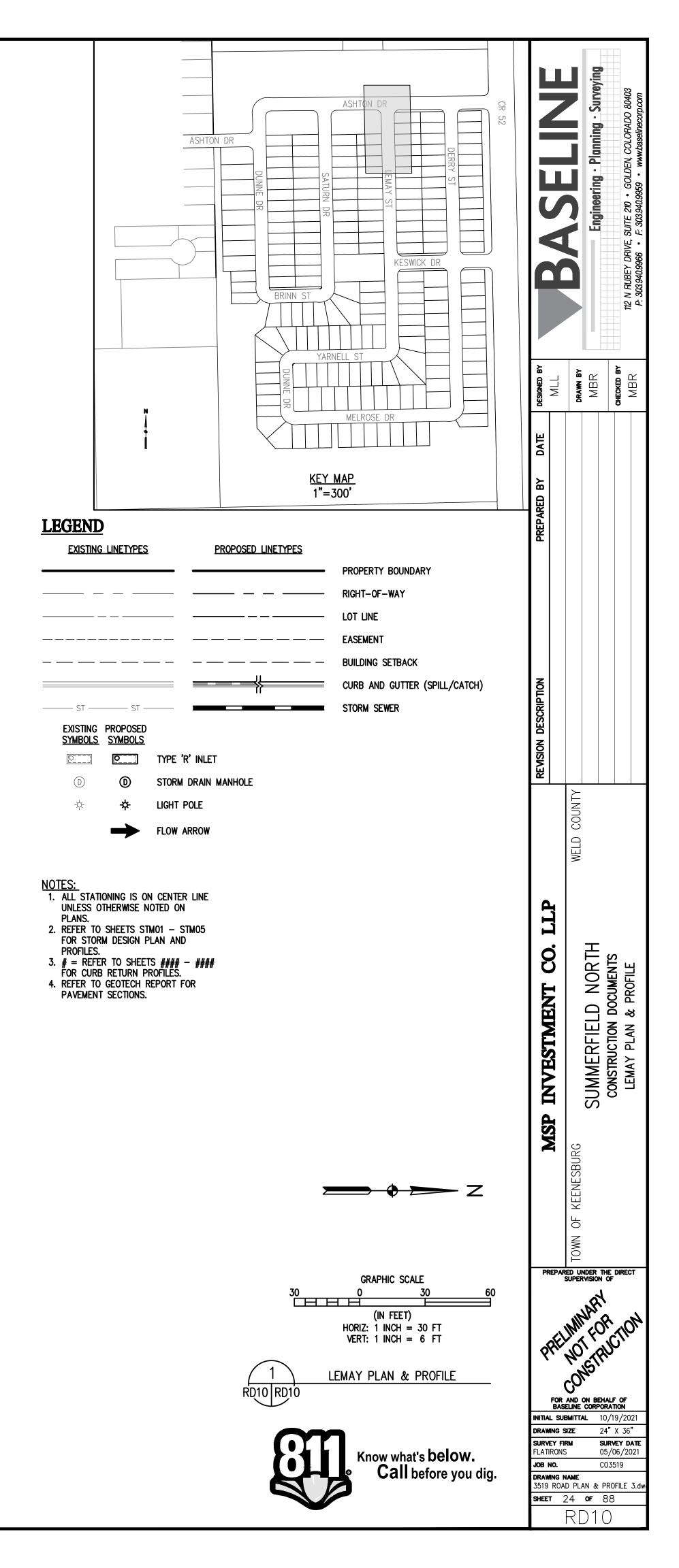


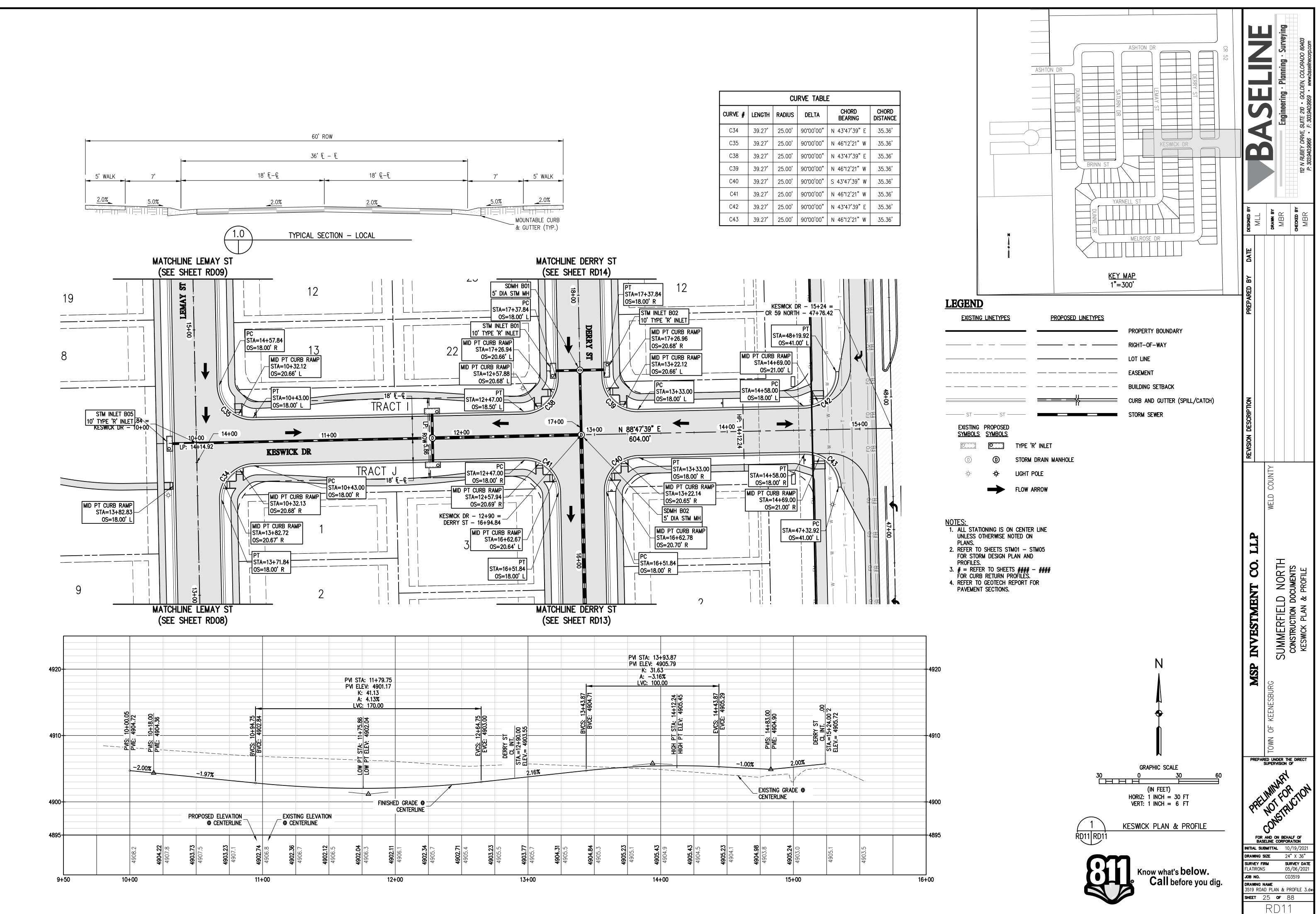
CURVE TABLE						
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE	
C34	39.27'	25.00'	90 <b>°</b> 00'00"	N 43°47'39" E	35.36'	
C35	39.27'	25.00'	90°00'00"	N 46°12'21" W	35.36'	



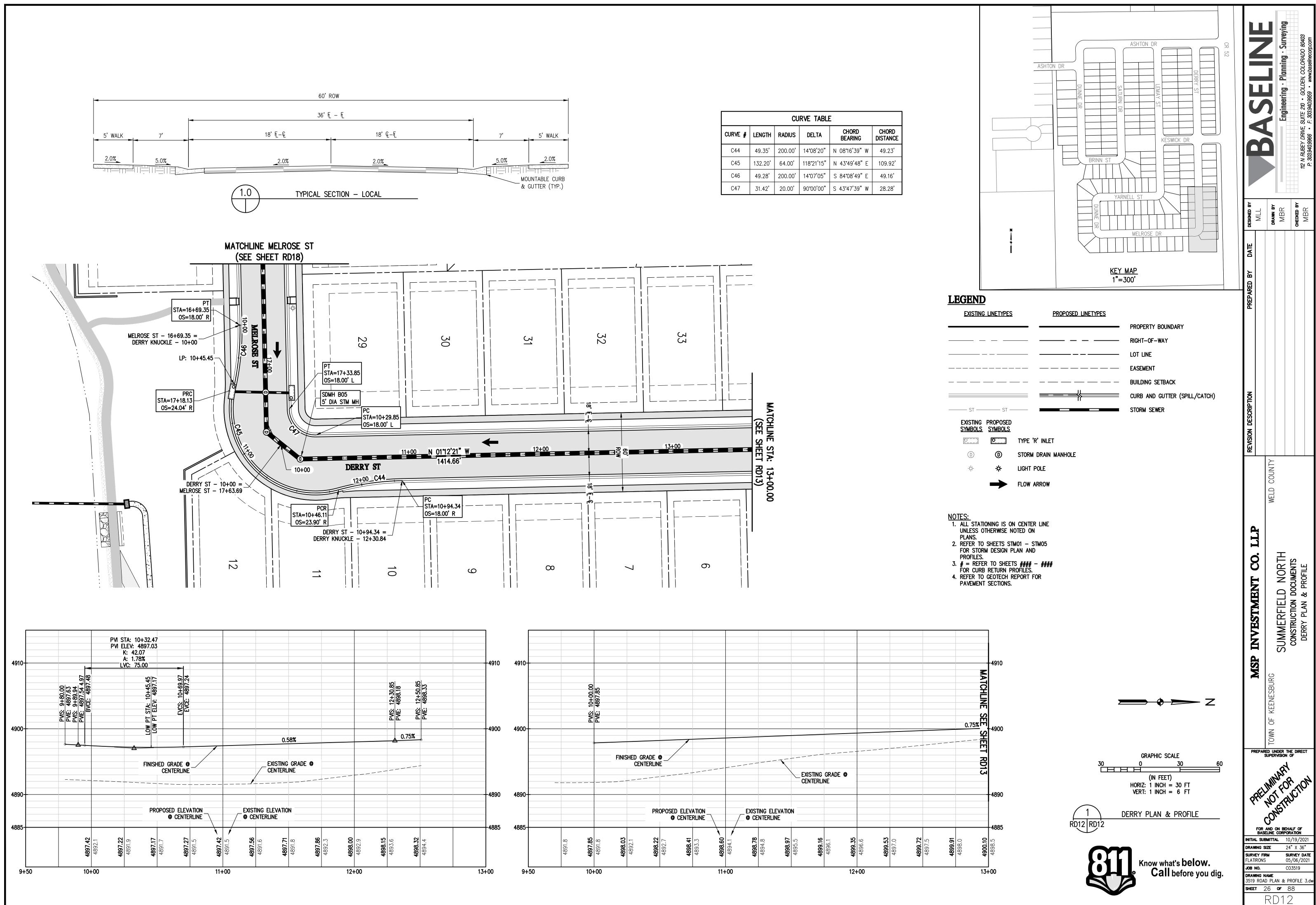


CURVE TABLE						
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE	
C36	38.96'	25.07 <b>'</b>	89 <b>°</b> 02'03"	S 45°52'55" E	35.15'	
C37	39.55'	25.00'	90 <b>°</b> 38'54"	N 44⁰07'05" E	35.55'	

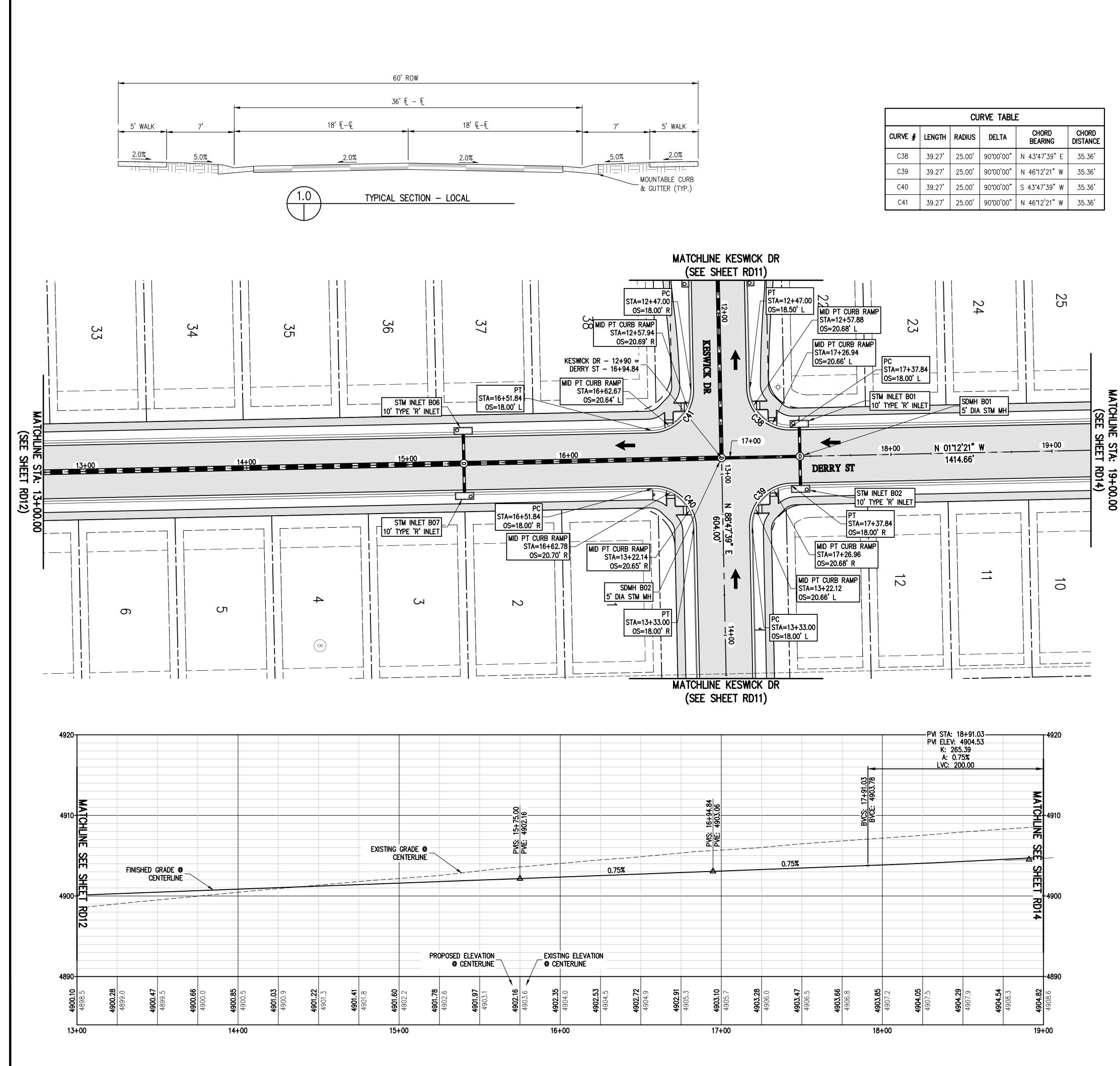




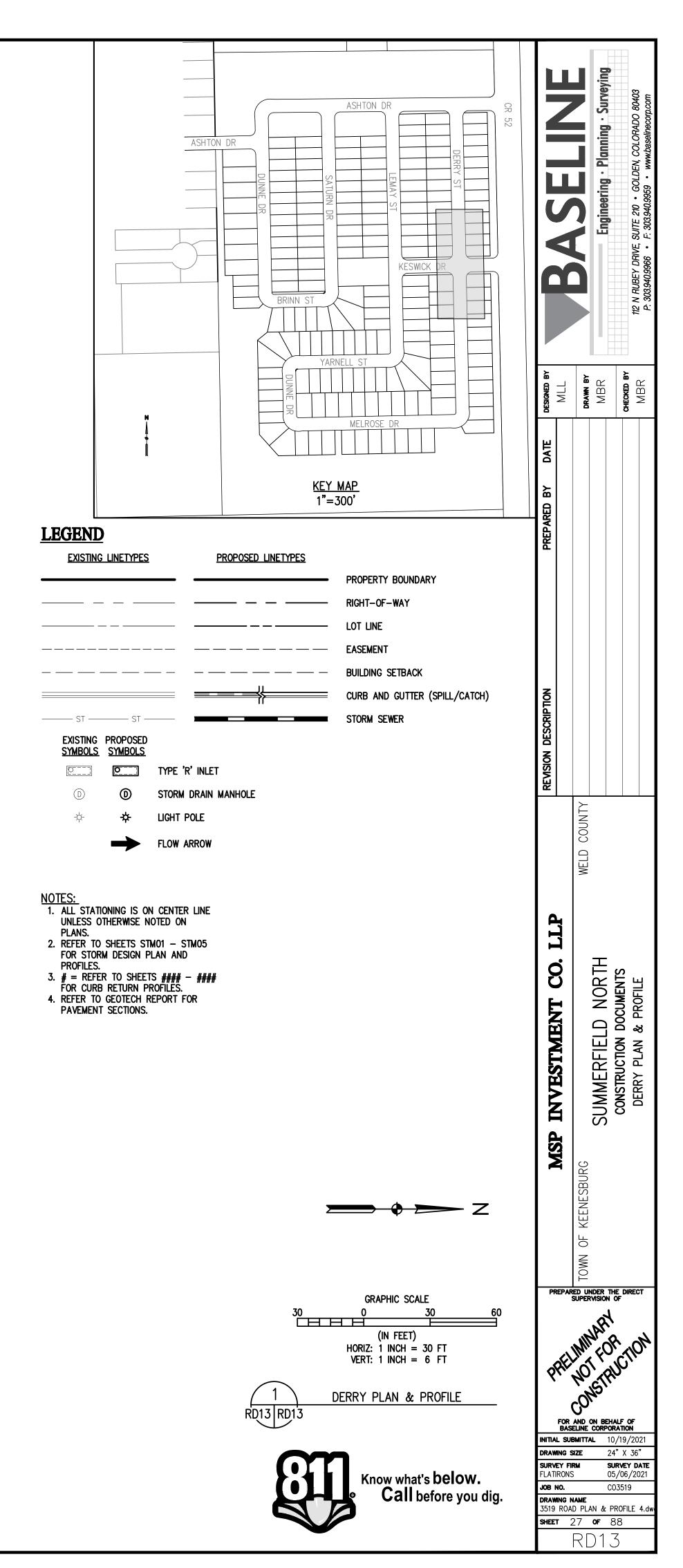
	CURVE TABLE							
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C34	39.27 <b>'</b>	25.00'	90 <b>°</b> 00'00"	N 43°47'39" E	35.36'			
C35	39.27 <b>'</b>	25.00'	90 <b>°</b> 00'00"	N 46°12'21" W	35.36'			
C38	39.27 <b>'</b>	25.00'	90 <b>°</b> 00'00"	N 43°47'39" E	35.36'			
C39	39.27 <b>'</b>	25.00'	90 <b>°</b> 00'00"	N 46°12'21" W	35.36'			
C40	39.27 <b>'</b>	25.00'	90 <b>°</b> 00'00"	S 43°47'39" W	35.36'			
C41	39.27 <b>'</b>	25.00'	90 <b>°</b> 00'00"	N 46°12'21" W	35.36'			
C42	39.27 <b>'</b>	25.00'	90 <b>°</b> 00'00"	N 43°47'39" E	35.36'			
C43	39.27 <b>'</b>	25.00'	90°00'00"	N 46°12'21" W	35.36'			

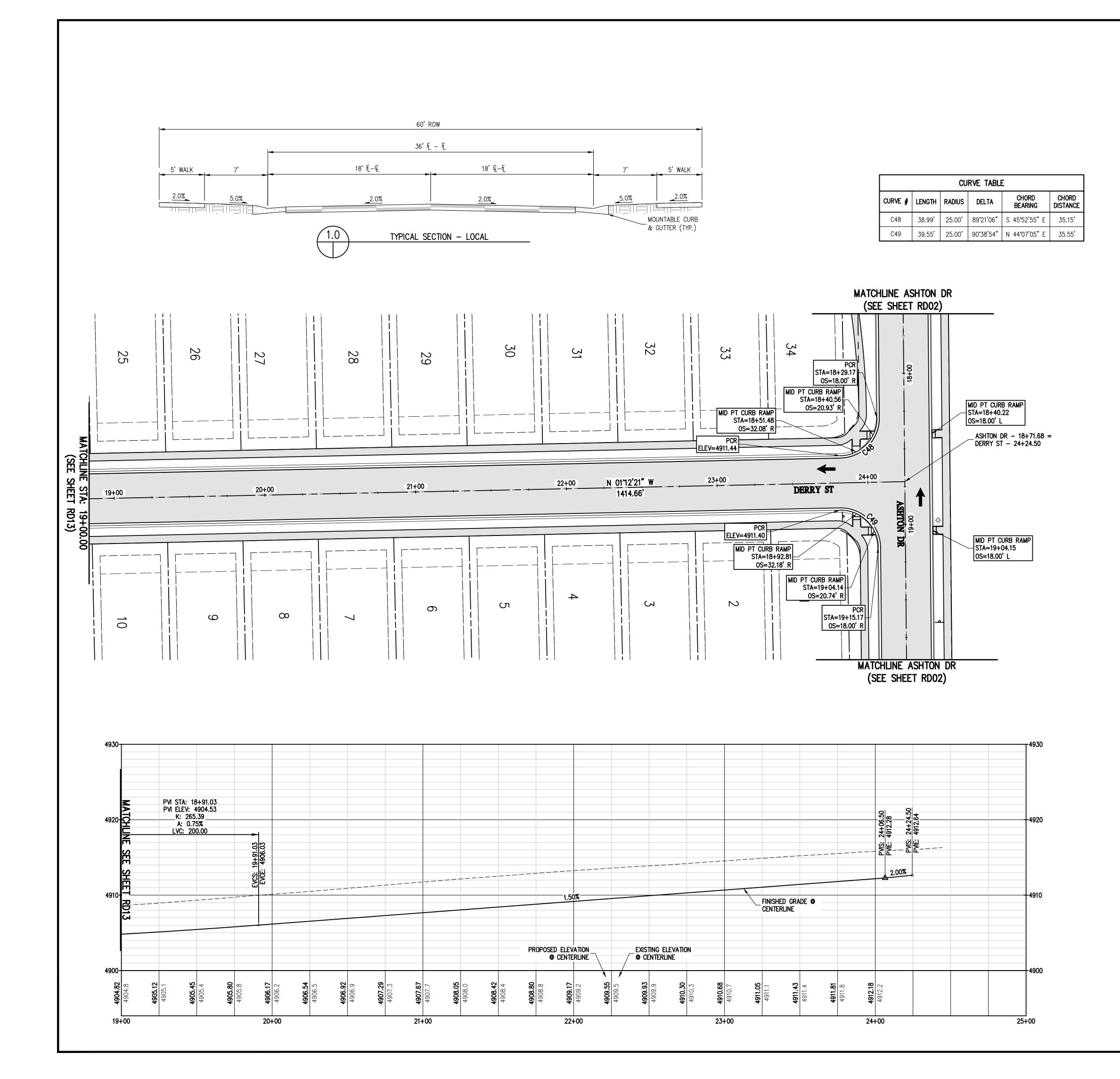


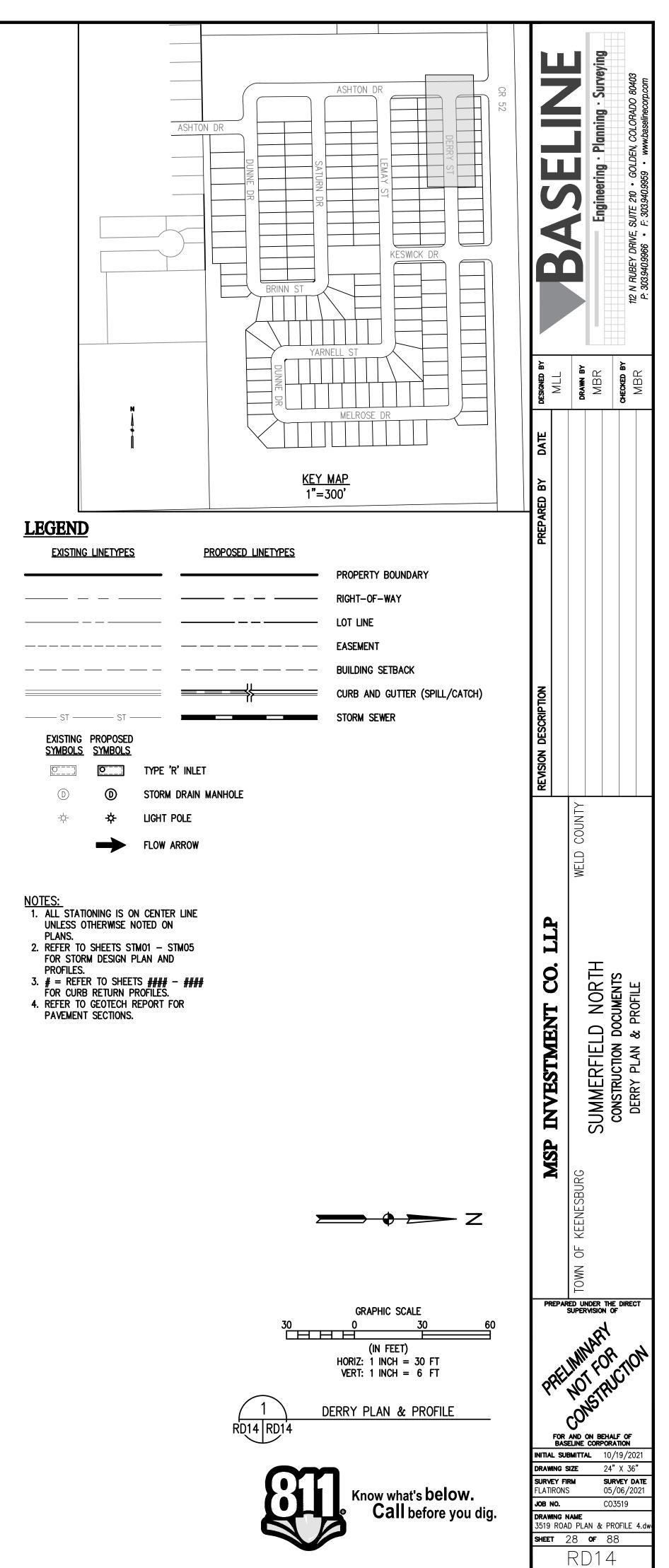
CURVE TABLE							
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C44	49.35 <b>'</b>	200.00'	14 <b>°</b> 08'20"	N 08°16'39" W	49.23'		
C45	132.20'	64.00'	118 <b>°</b> 21'15"	N 43°49'48" E	109.92'		
C46	49.28'	200.00'	14 <b>°</b> 07'05"	S 84°08'49" E	49.16'		
C47	31.42'	20.00'	90°00'00"	S 43°47'39" W	28.28'		

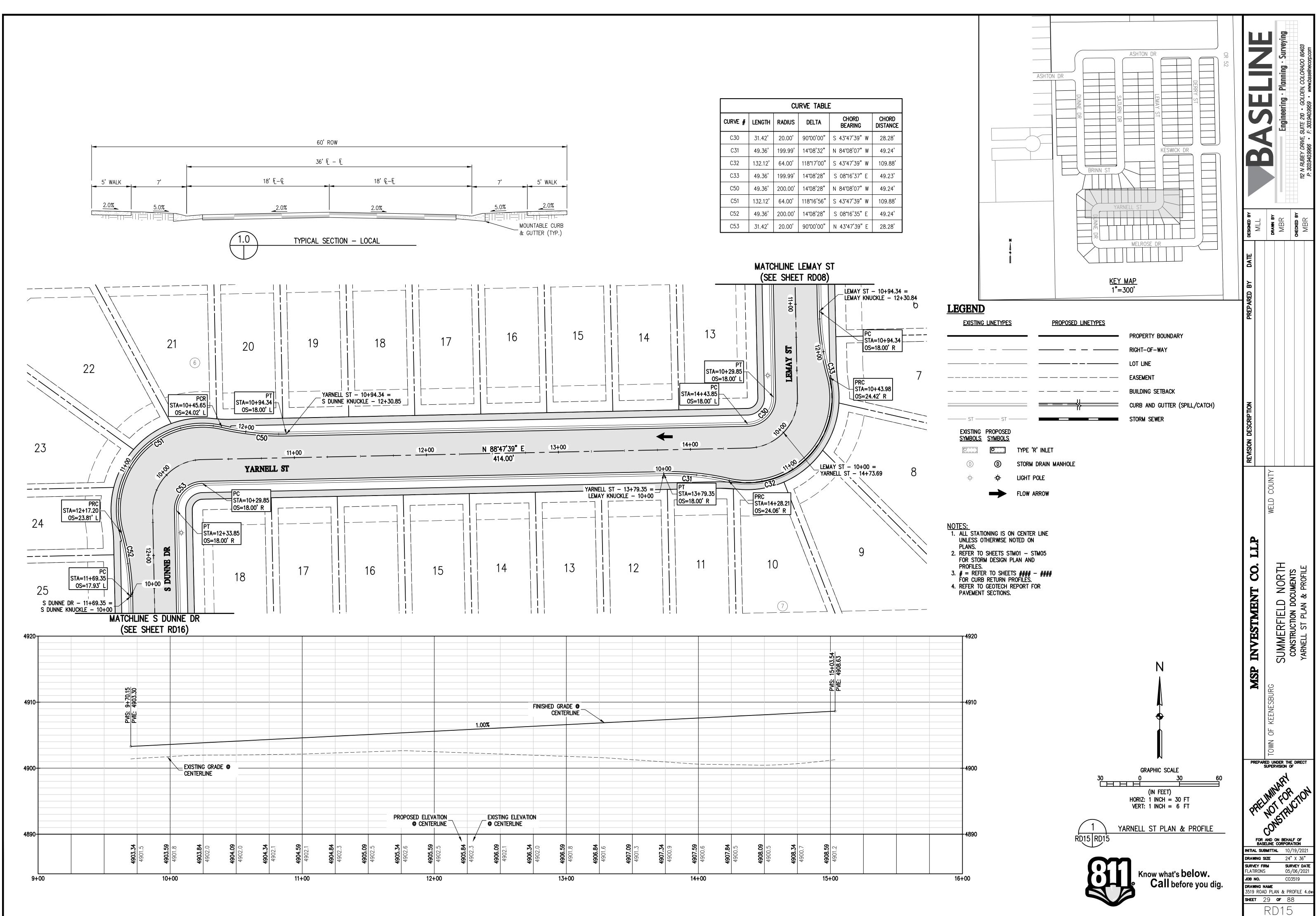


CURVE TABLE							
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE		
C38	39.27'	25.00'	90 <b>°</b> 00'00"	N 43°47'39" E	35.36'		
C39	39.27'	25.00'	90 <b>°</b> 00'00"	N 46°12'21" W	35.36'		
C40	39.27'	25.00'	90 <b>°</b> 00'00"	S 43°47'39" W	35.36'		
C41	39.27'	25.00'	90 <b>°</b> 00'00"	N 46°12'21" W	35.36'		

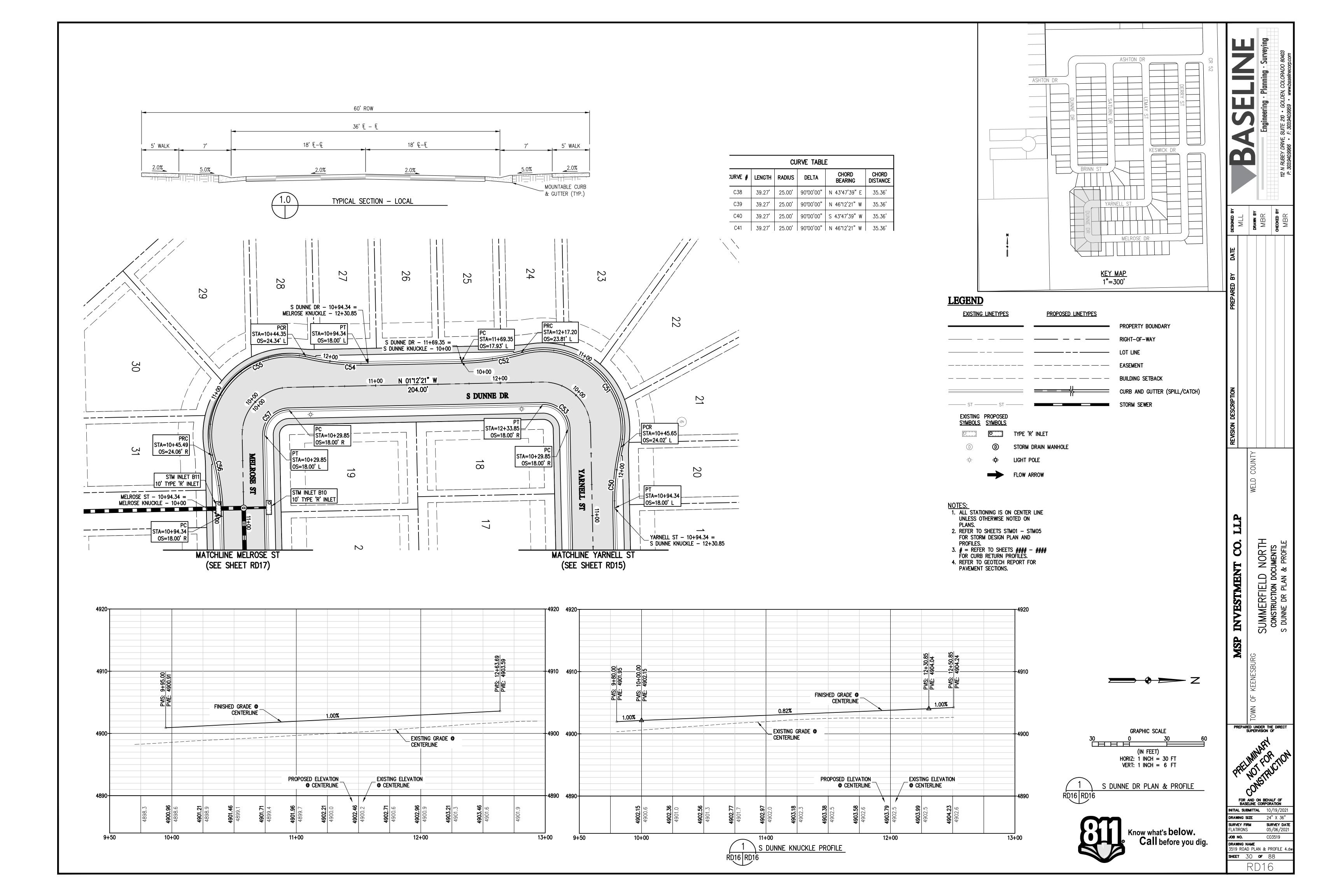




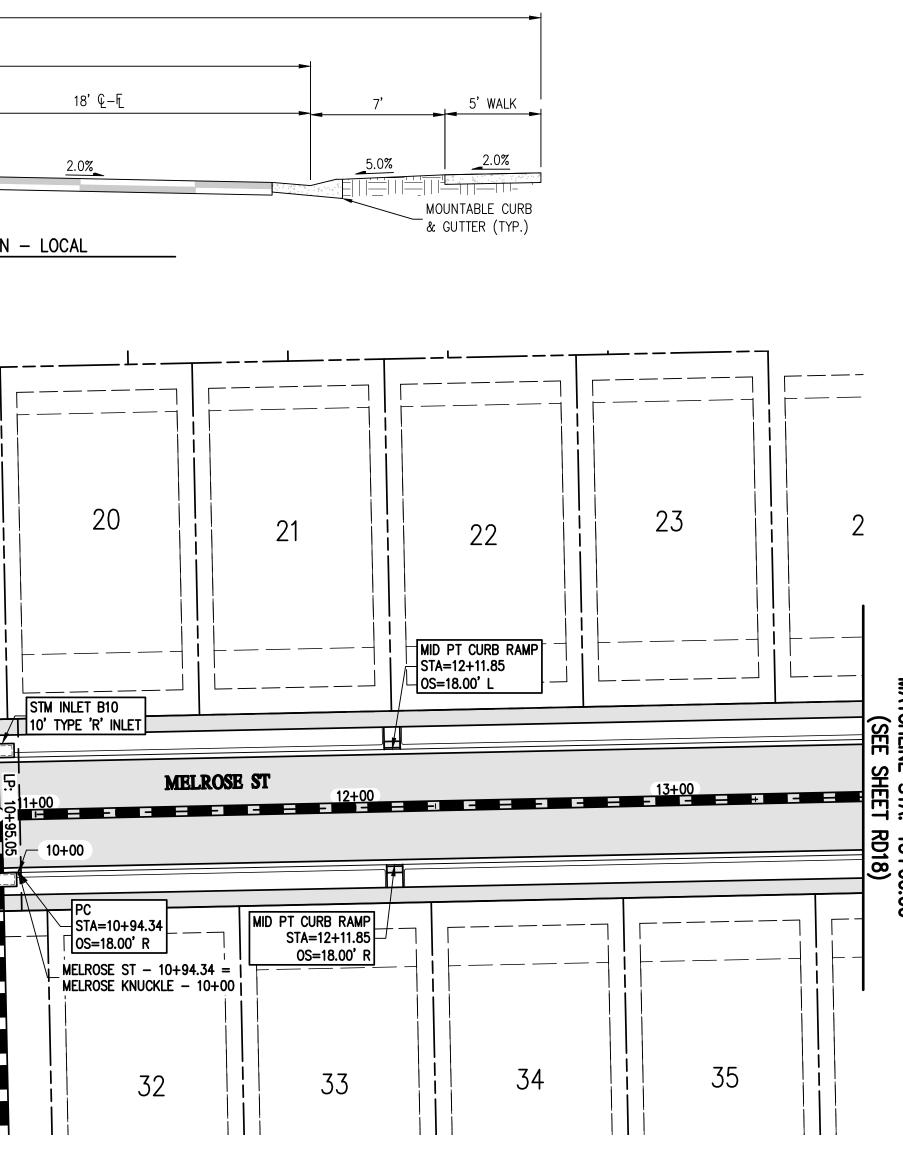




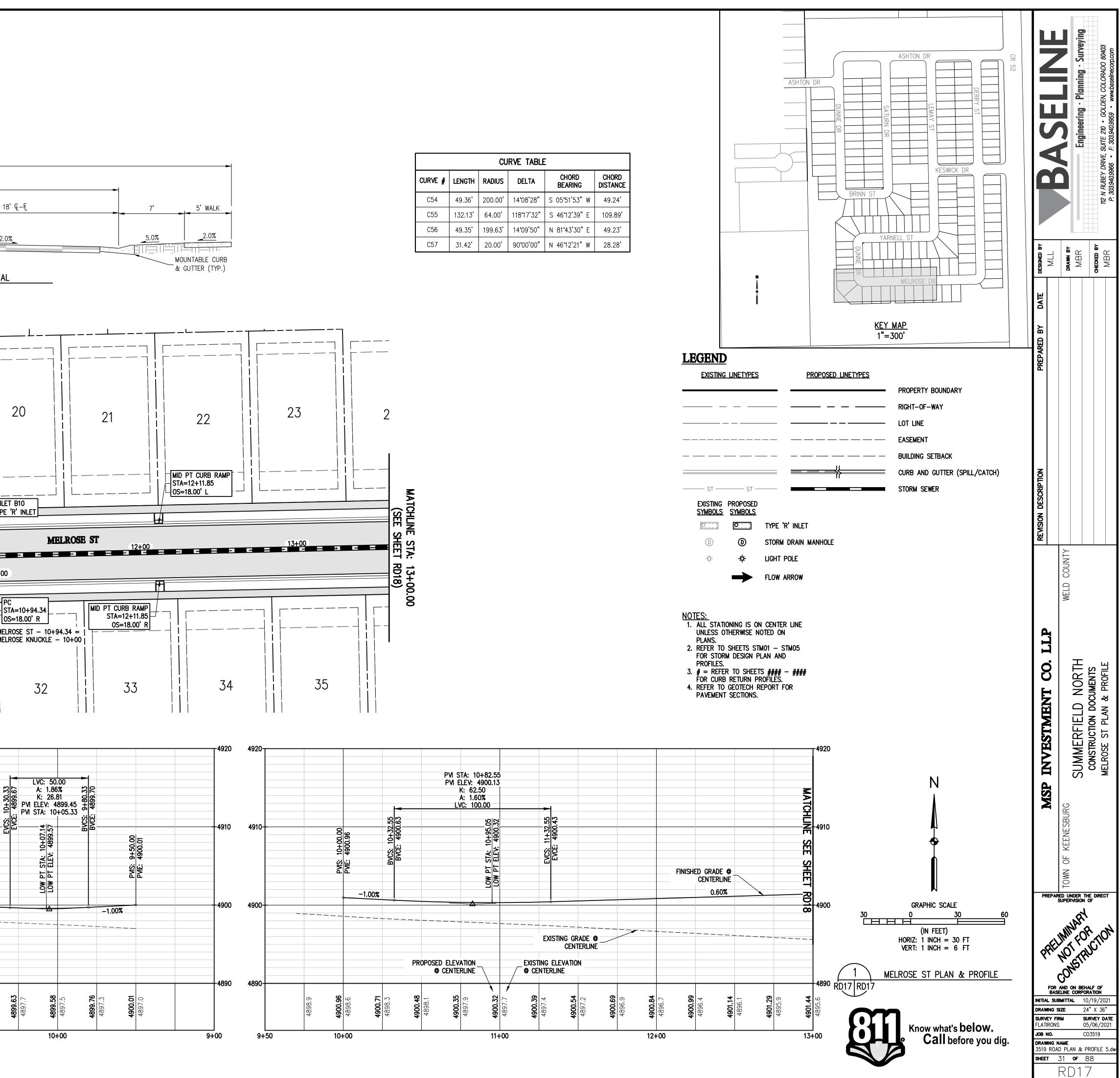
	CURVE TABLE						
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE		
C30	31.42'	20.00'	90 <b>°</b> 00'00"	S 43°47'39" W	28.28'		
C31	49.36'	199.99'	14 <b>°</b> 08'32"	N 84°08'07" W	49.24'		
C32	132.12'	64.00'	118 <b>°</b> 17'00"	S 43°47'39" W	109.88'		
C33	49.36'	199.99'	14 <b>°</b> 08'28"	S 08°16'37" E	49.23'		
C50	49.36'	200.00'	14 <b>°</b> 08'28"	N 84°08'07" W	49.24'		
C51	132.12'	64.00'	118 <b>°</b> 16'56"	S 43°47'39" W	109.88'		
C52	49.36'	200.00'	14 <b>°</b> 08'28"	S 08°16'35" E	49.24'		
C53	31.42'	20.00'	90°00'00"	N 43°47'39" E	28.28'		

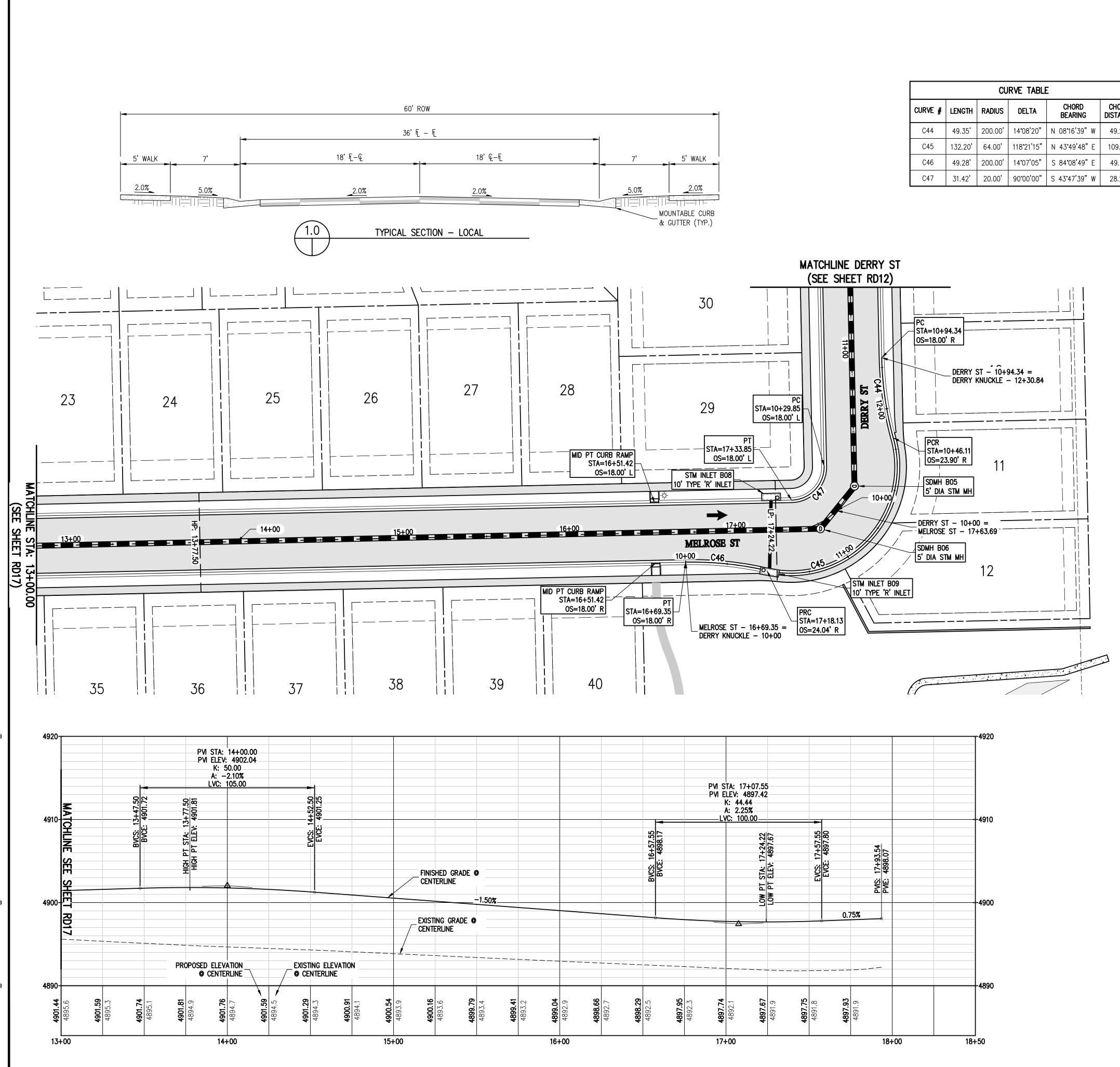


60'ROW 36' F\_ - F\_ 18' 厅—₢ 18' ¥–F 5' WALK 7' 2.0% 5.0% 2.0% 2.0% TYPICAL SECTION - LOCAL 1.0 MATCHLINE S DUNNE DR (SEE SHEET RD16) B 26 \_ \_\_ \_\_ DUNNE STA=10+94.34 **DI S** 0S=18.00' L S DUNNE DR - 10+94.34 = \_ MELROSE KNUCKLE - 12+30.85 20 19 27 PCR \_|STA=10+45.48|---0S=24.06' L PC STA=10+29.8 0S=18.00' R \_\_\_\_ STM INLET B10 28 STA=10+29.84 OS=18.00' L 10,×00 10+00 29 STA=10+94.34 SDMH B08 PRC □OS=18.00' R 5' DIA STM MH |STA=10+45.48| 0S=24.06' R - LP: 10+07.14 — STM INLET B11 10' TYPE 'R' INLET 30 31 4920<del>-</del> 4910-12+50.8 4901.60 12+30.85 4901.40 PAIS: PNS PNS EXISTING GRADE **@** FLOWLINE 1.00% 4900--0.86%------\_\_\_\_\_ FINISHED GRADE FLOWLINE -EXISTING ELEVATION PROPOSED ELEVATION 4890 4901.14 4899.4 **4901.3 900** 12+00 13+00 11+00 MELROSE ST KNUCKLE PROFILE RD17 RD17

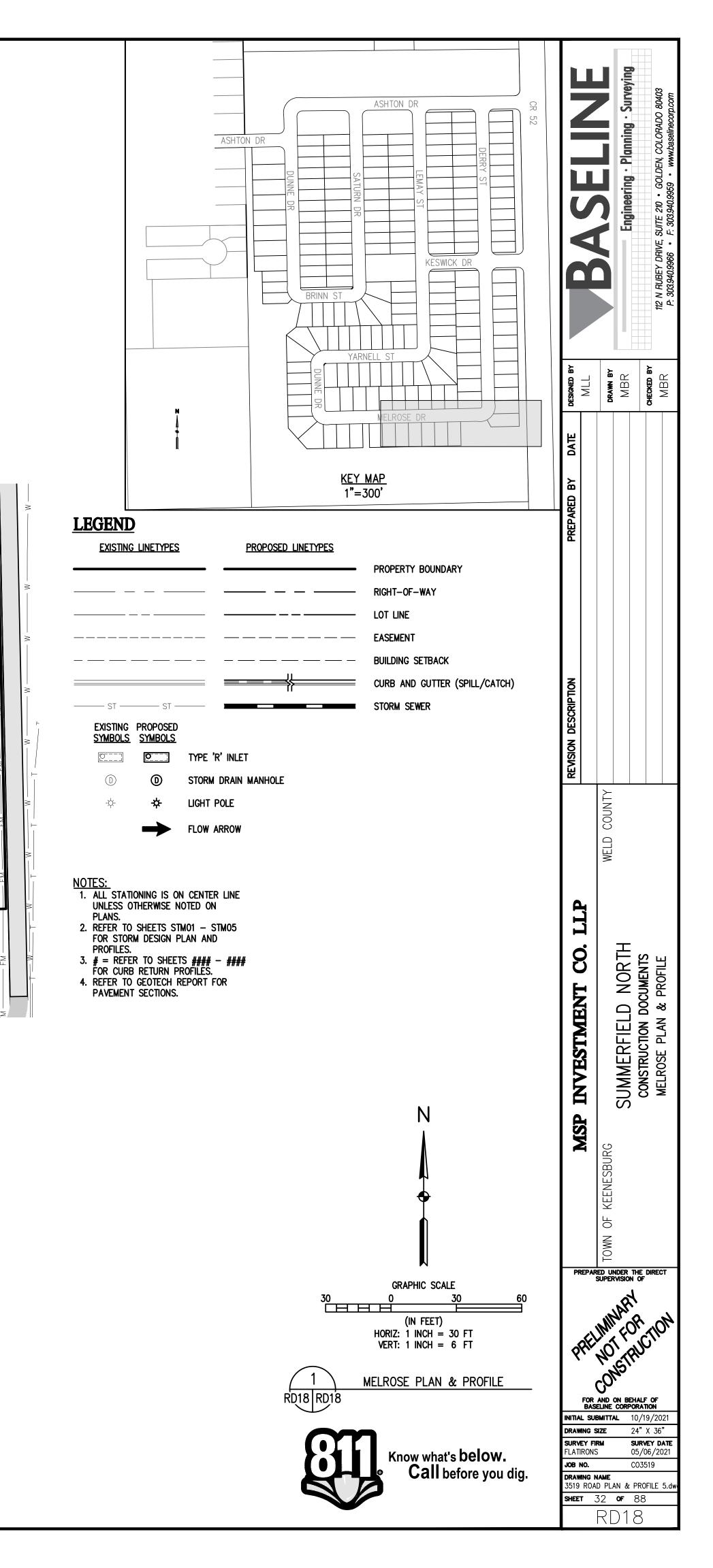


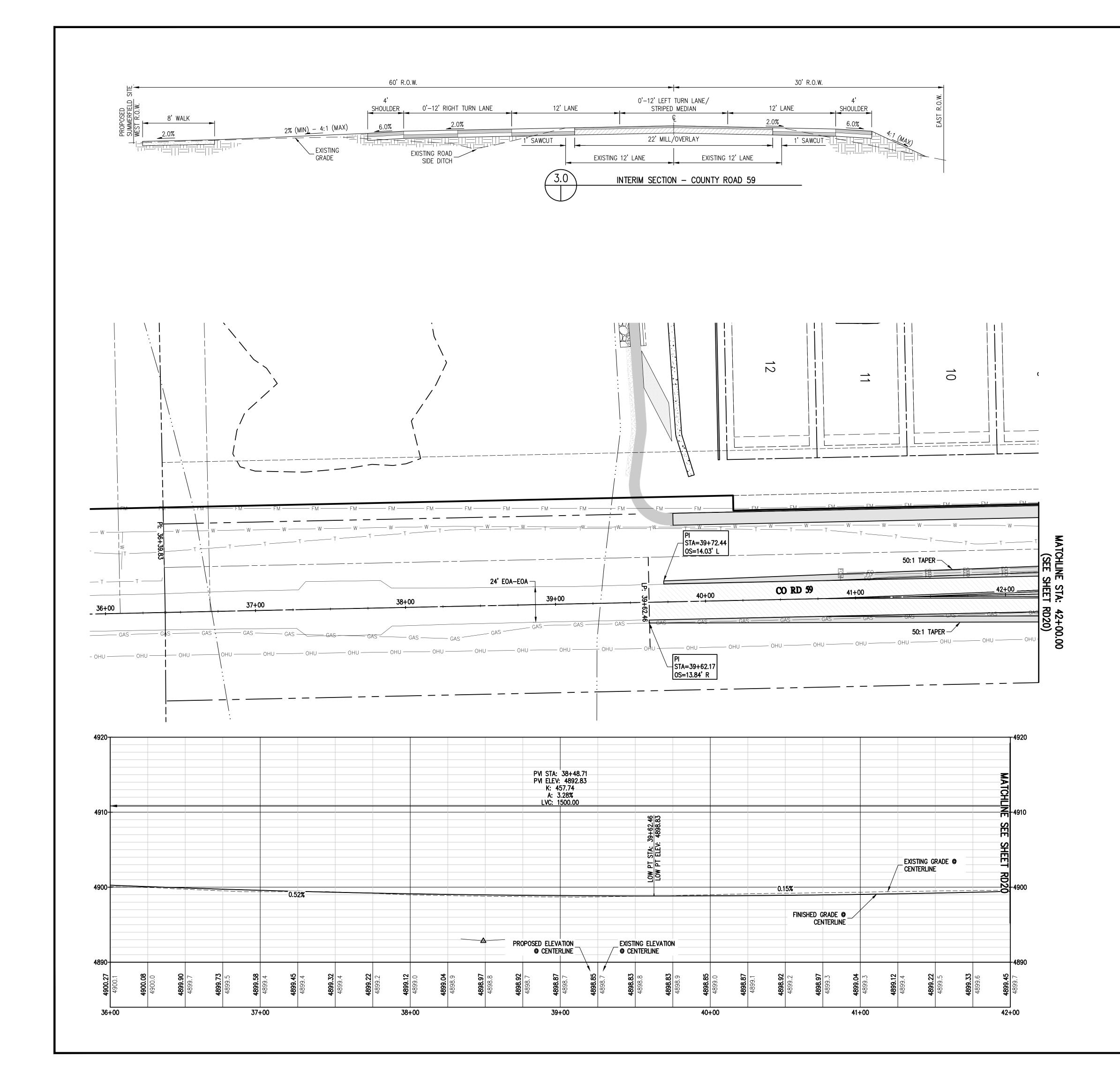
CURVE TABLE								
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C54	49.36'	200.00'	14 <b>°</b> 08'28"	S 05°51'53" W	49.24'			
C55	132.13'	64.00'	118 <b>°</b> 17'32"	S 46°12'39" E	109.89'			
C56	49.35'	199.63'	14 <b>°</b> 09'50"	N 81°43'30" E	49.23'			
C57	31.42'	20.00'	90 <b>°</b> 00'00"	N 46°12'21" W	28.28'			

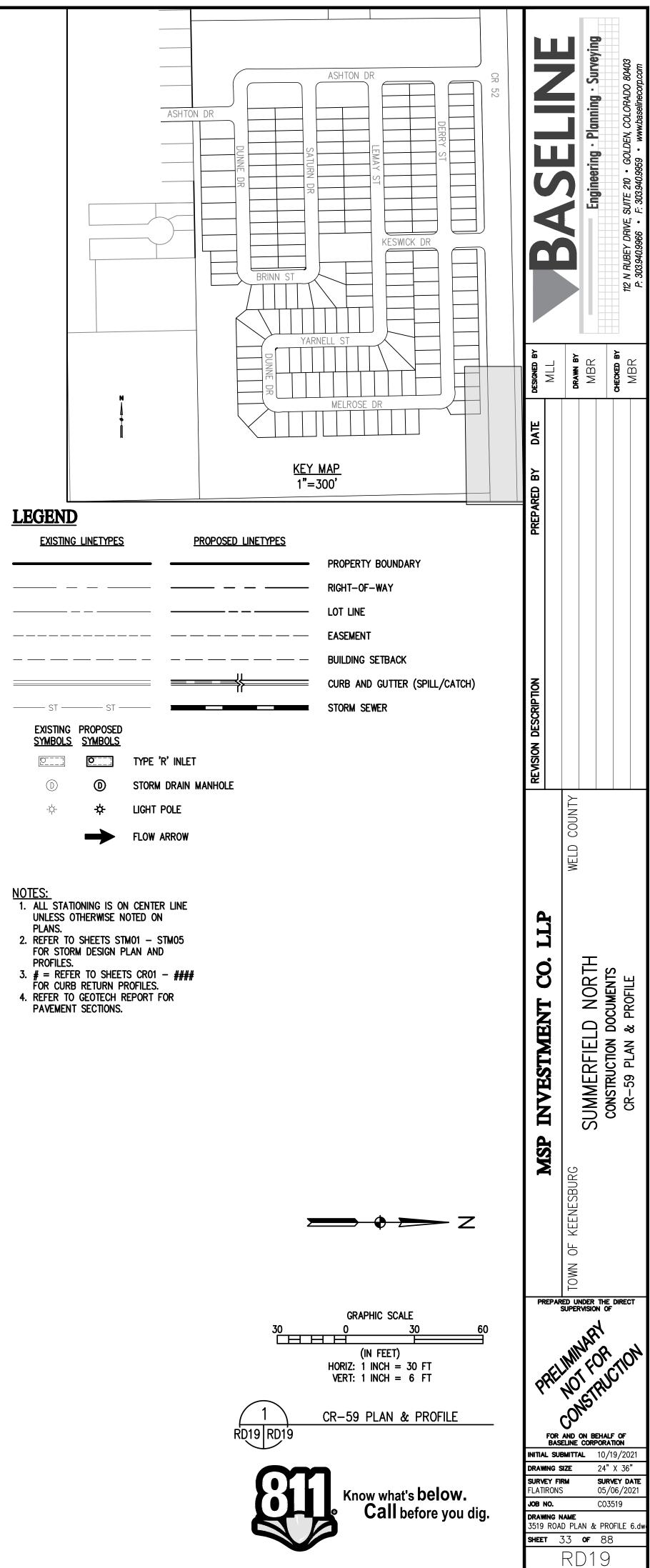


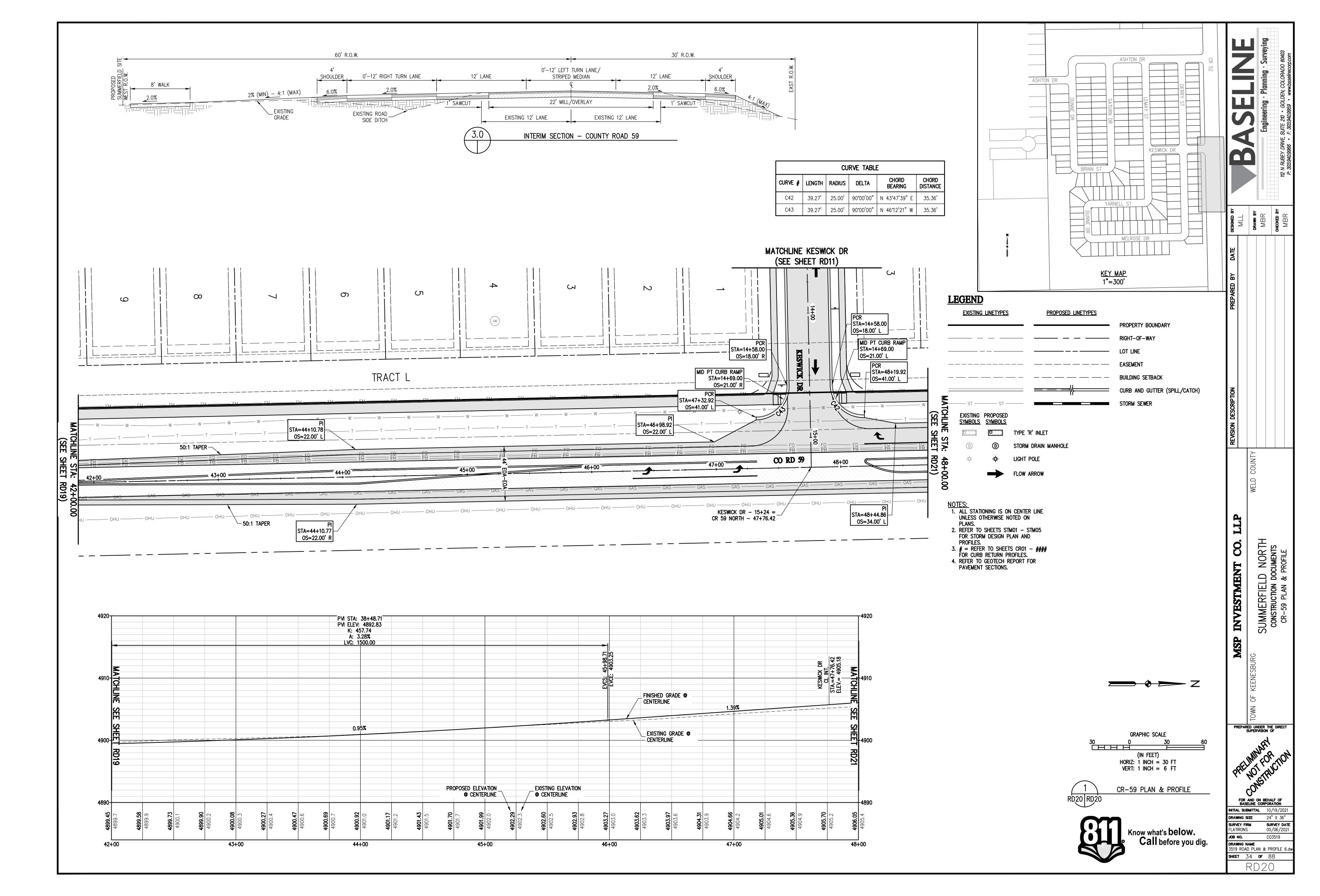


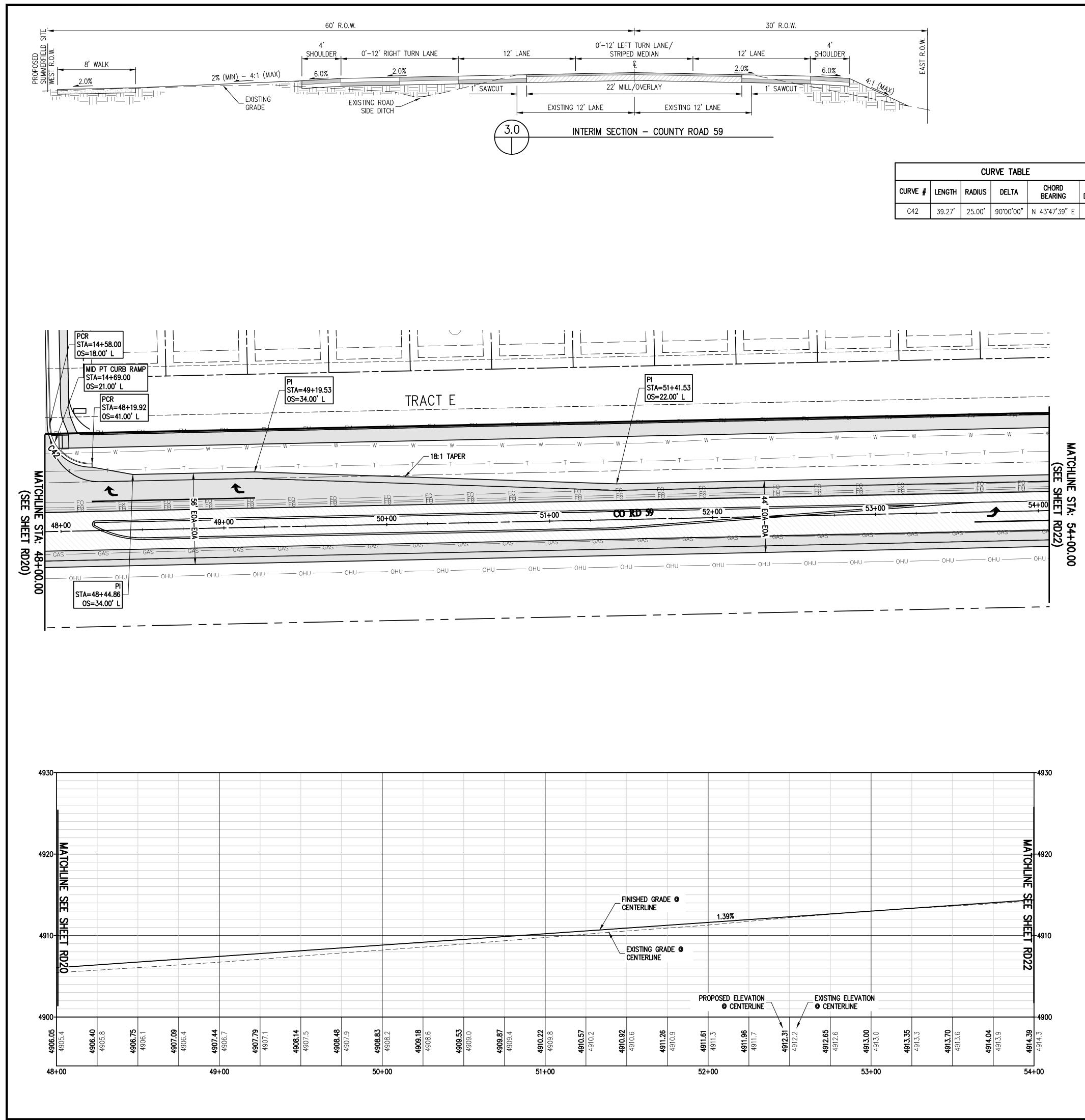
CURVE TABLE								
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE			
C44	49.35'	200.00'	14°08'20"	N 08°16'39"W	49.23'			
C45	132.20'	64.00'	118 <b>°</b> 21'15"	N 43°49'48" E	109.92'			
C46	49.28'	200.00'	14 <b>°</b> 07'05"	S 84°08'49" E	49.16'			
C47	31.42'	20.00'	90 <b>°</b> 00'00"	S 43°47'39" W	28.28'			



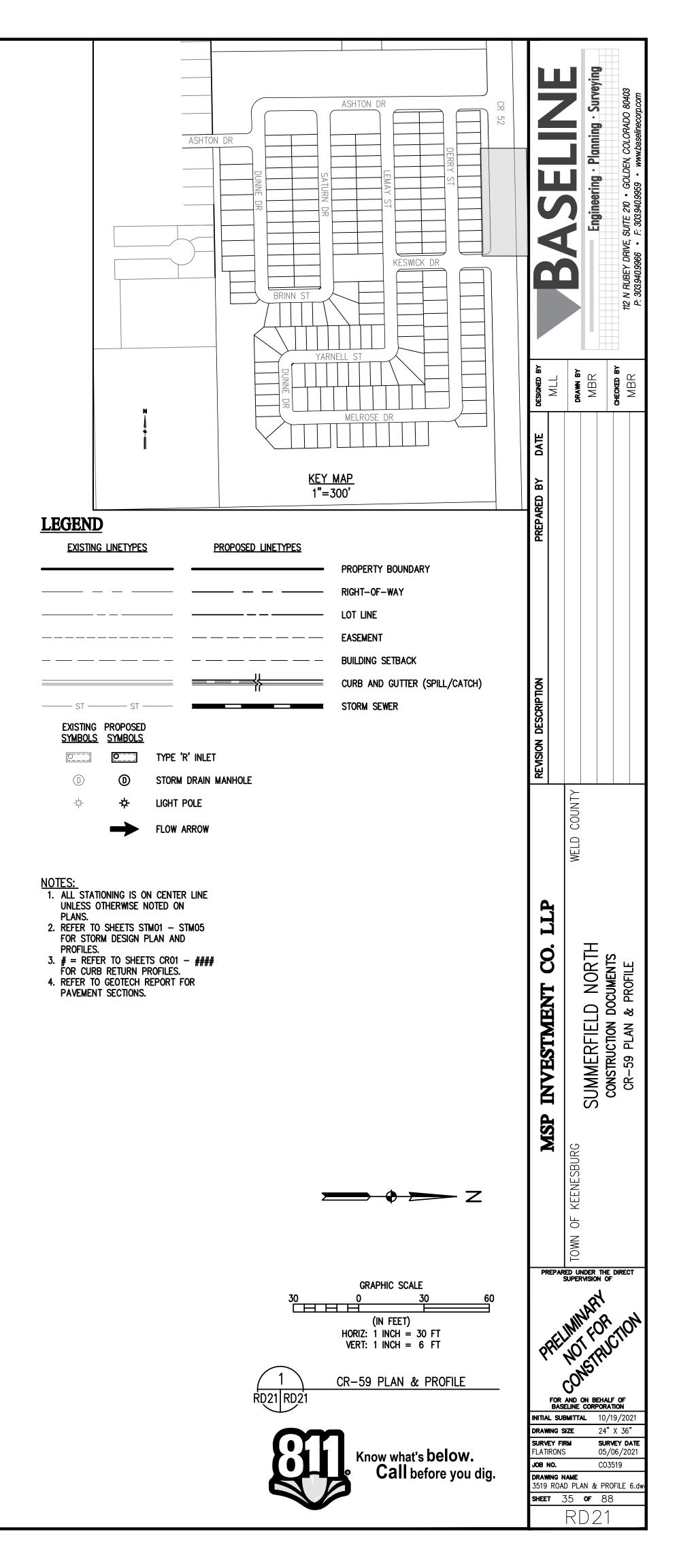


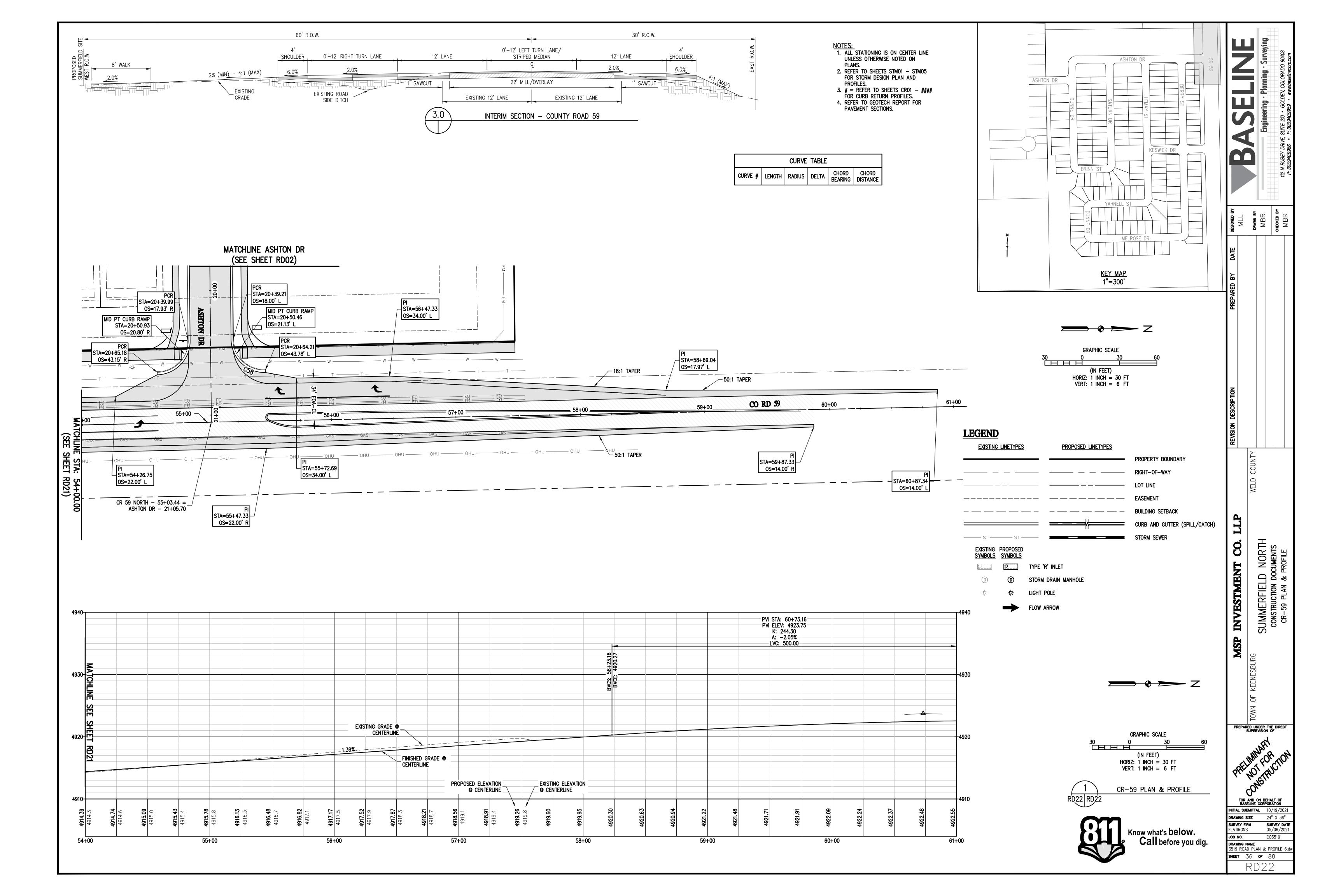


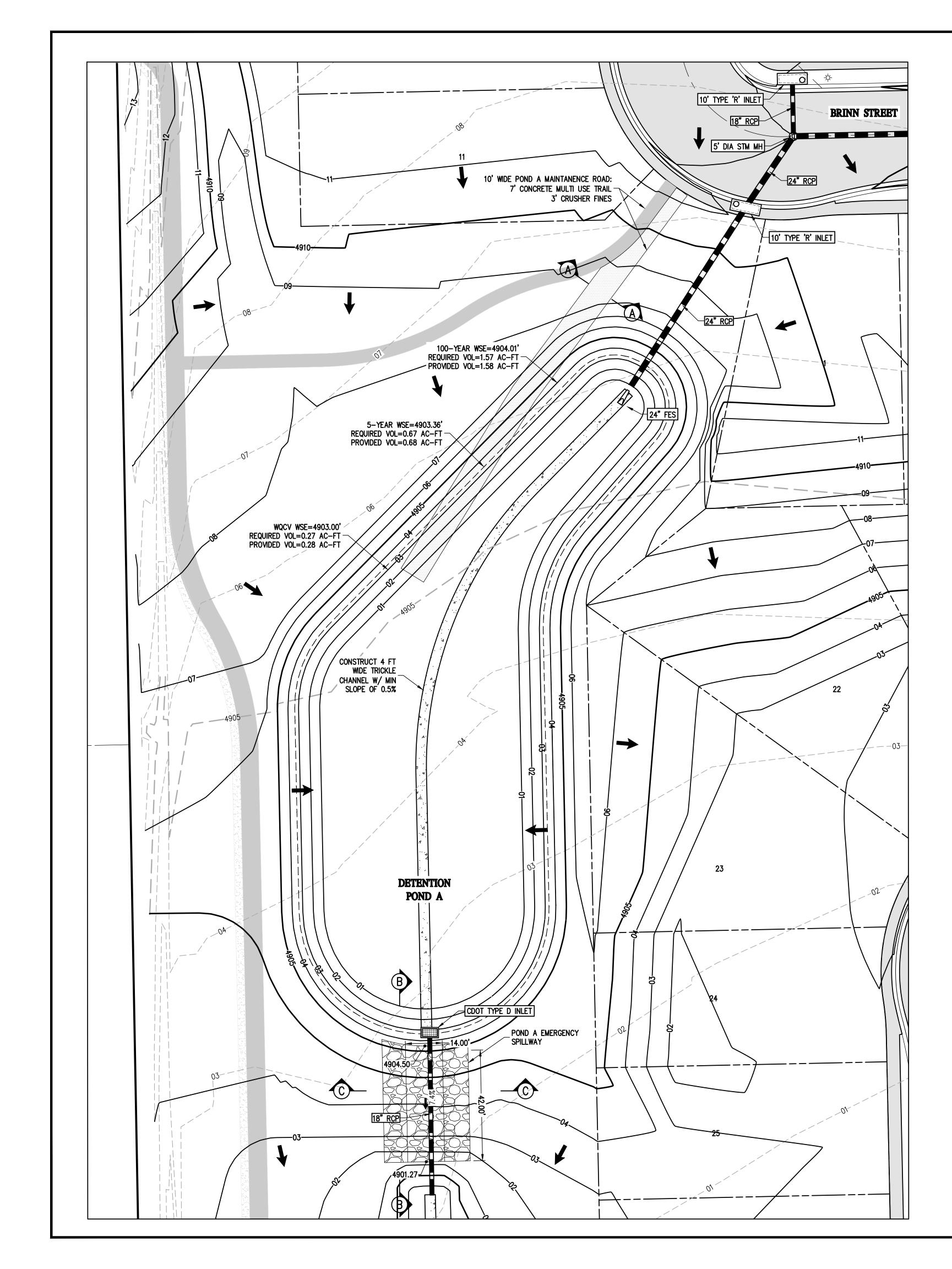




CURVE TABLE							
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE		
C42	39.27 <b>'</b>	25.00'	90°00'00"	N 43°47'39" E	35.36'		







EXISTING LINETYPES PROPOSED LINETYPES \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_**O**\_\_\_**O**\_\_\_ \_\_\_\_\_O\_\_\_\_\_ — SAN ——— EXISTING PROPOSED SYMBOLS SYMBOLS SPOT ELEVATION <u>25.4±</u>

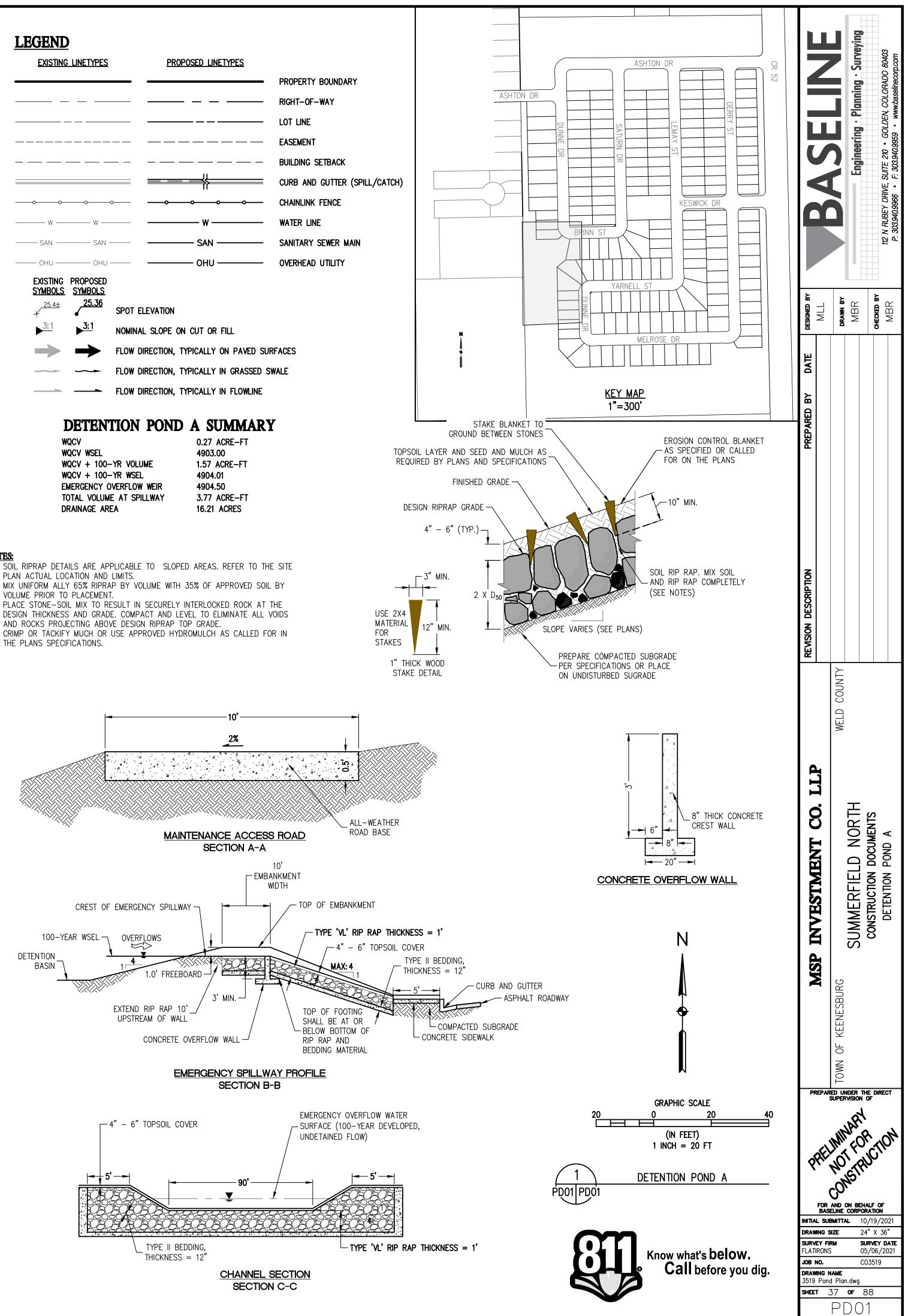
3:1	► <u>3:1</u>	NOMINAL SLOPE ON CUT OR FILL
	$\rightarrow$	FLOW DIRECTION, TYPICALLY ON PAVED SURFACES
$ \rightarrow $		FLOW DIRECTION, TYPICALLY IN GRASSED SWALE
	-	

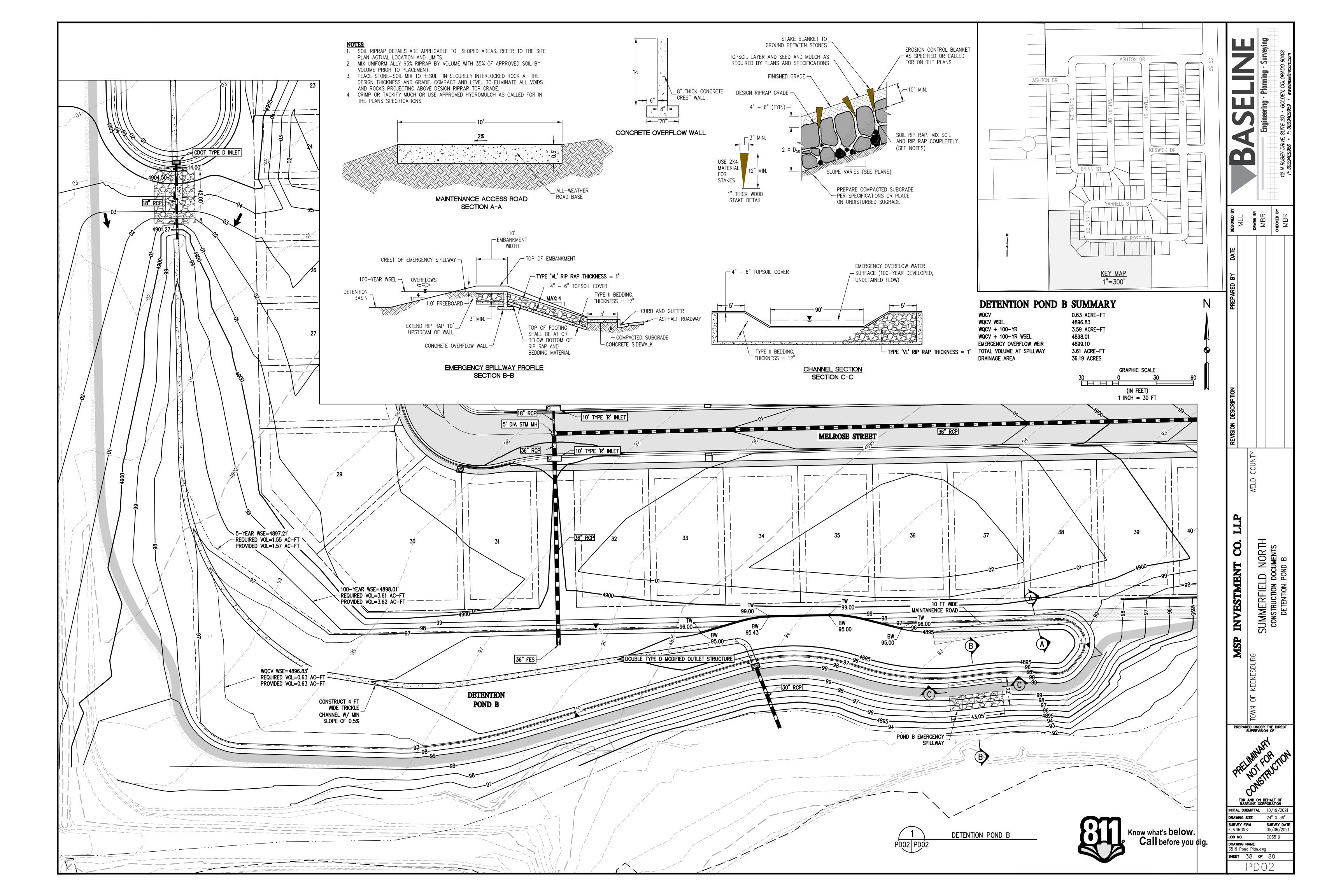
WQCV + 100-YR VOLUME WQCV + 100-YR WSEL TOTAL VOLUME AT SPILLWAY

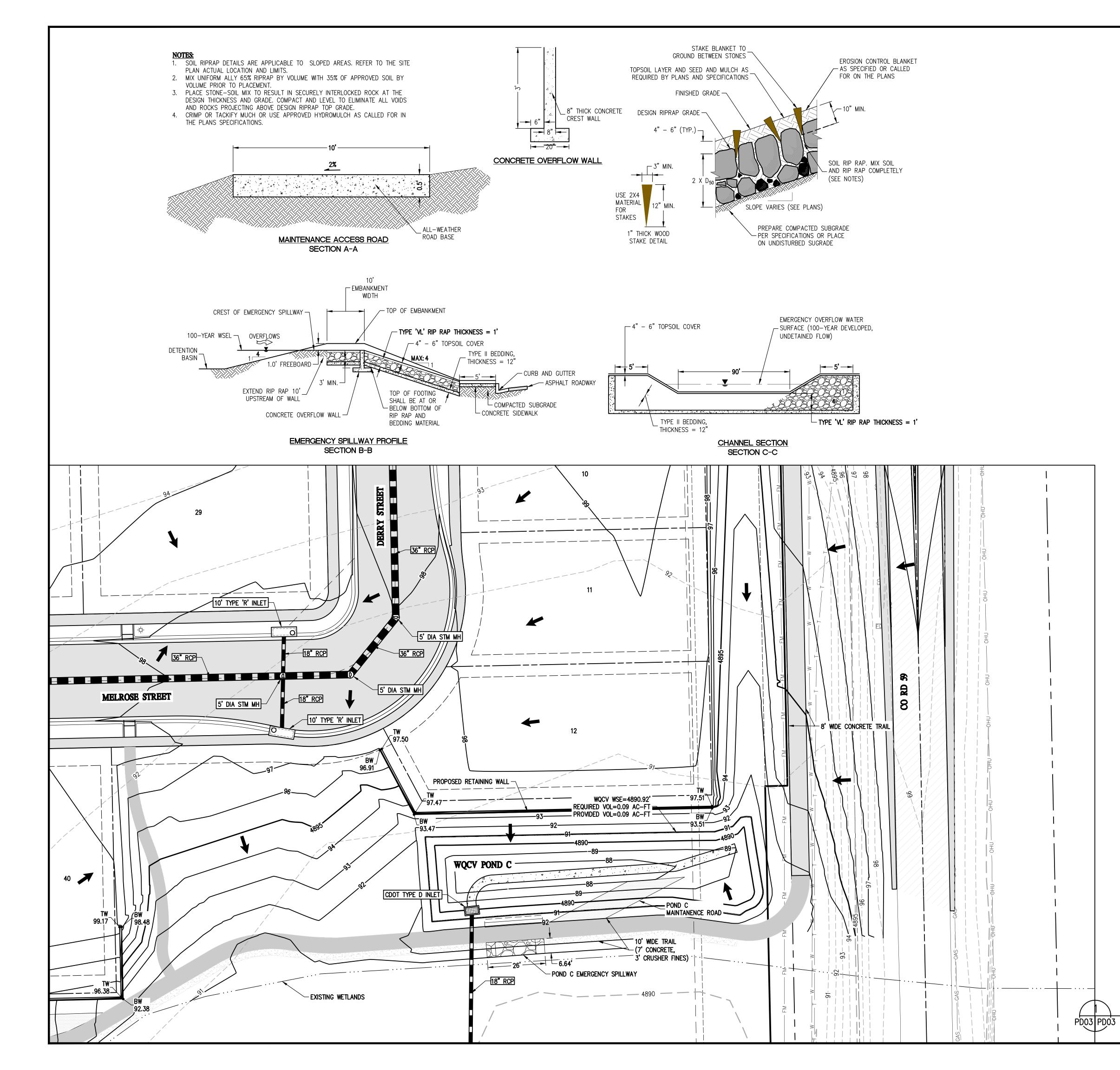
4903.00 4904.01 4904.50 16.21 ACRES

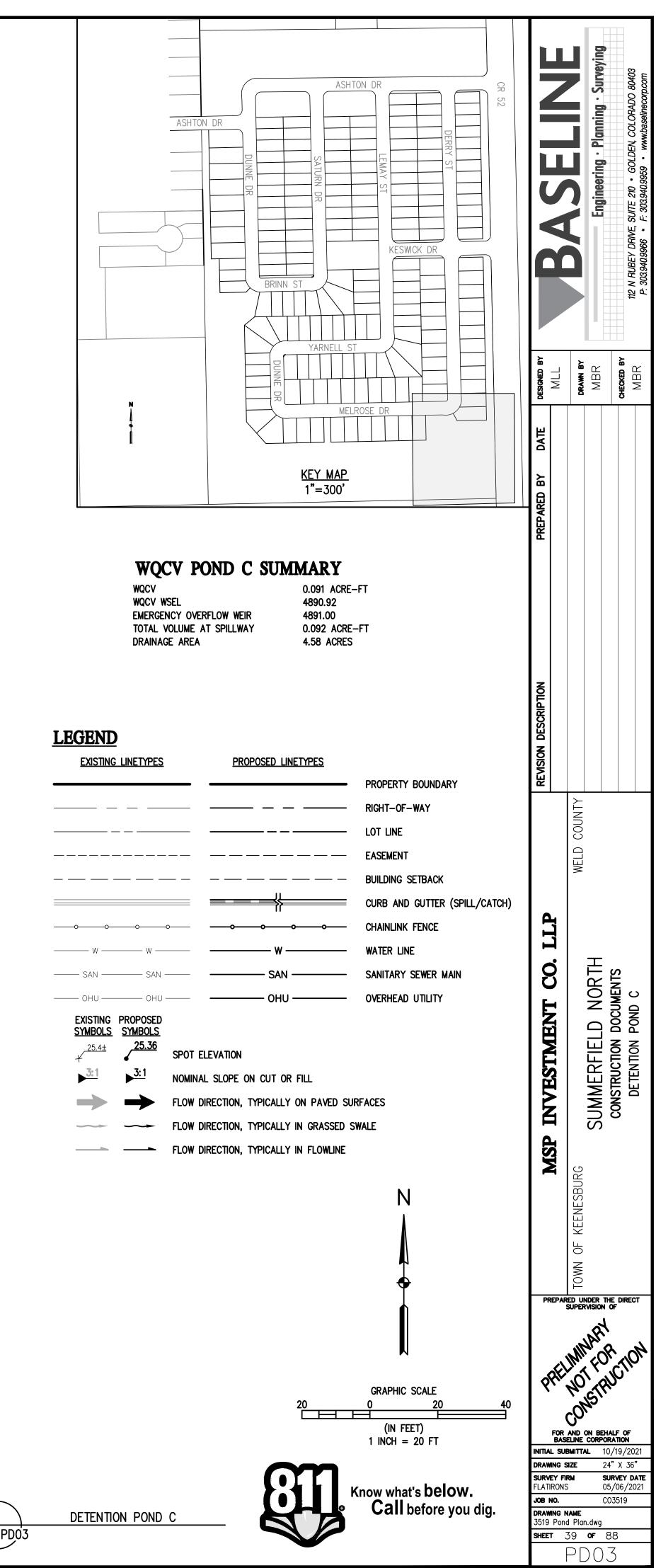
# <u>NOTES:</u>

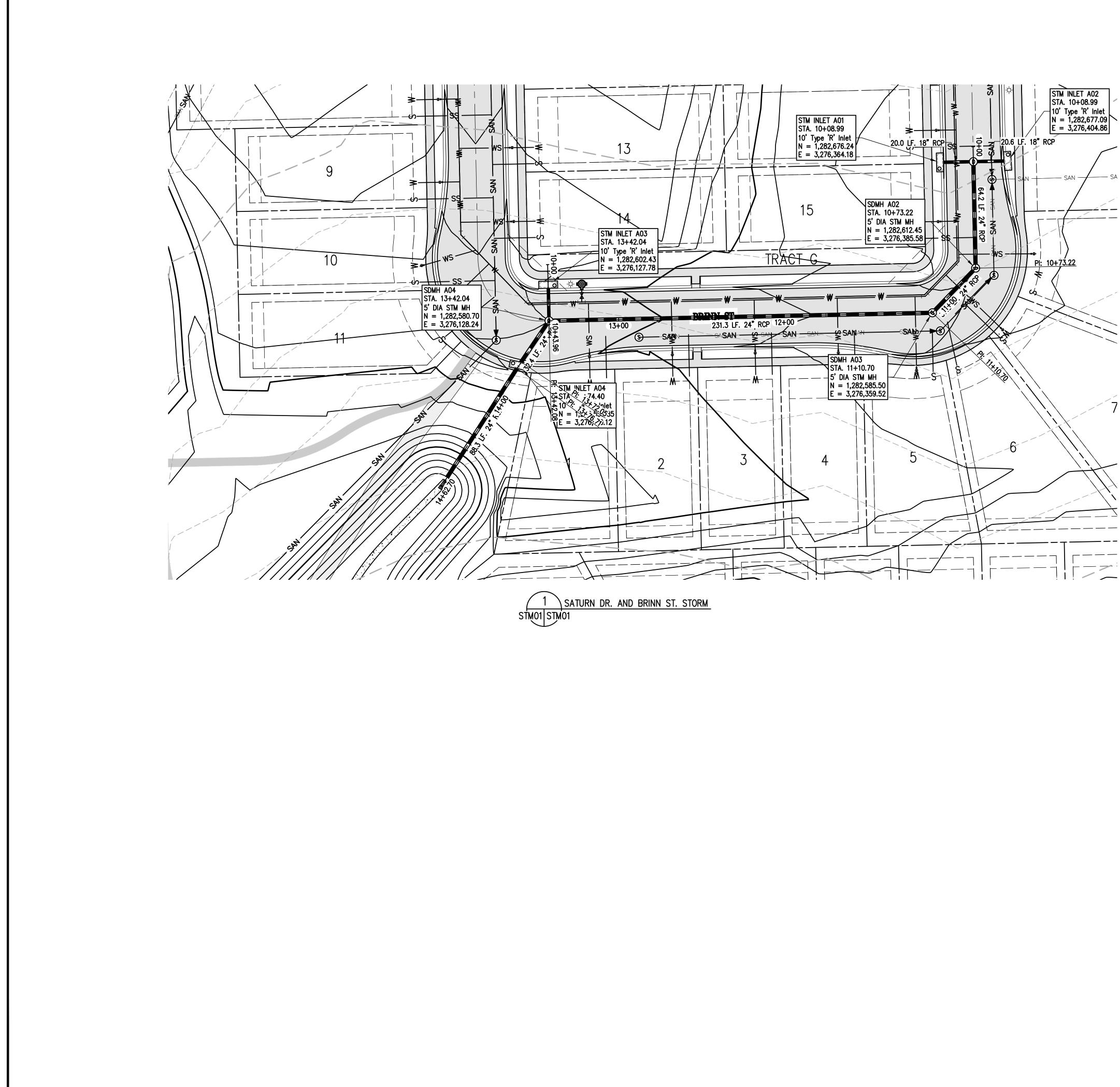
- 1. SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS. REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
- 2. MIX UNIFORM ALLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
- 3. PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS
- 4. CRIMP OR TACKIFY MUCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS SPECIFICATIONS.

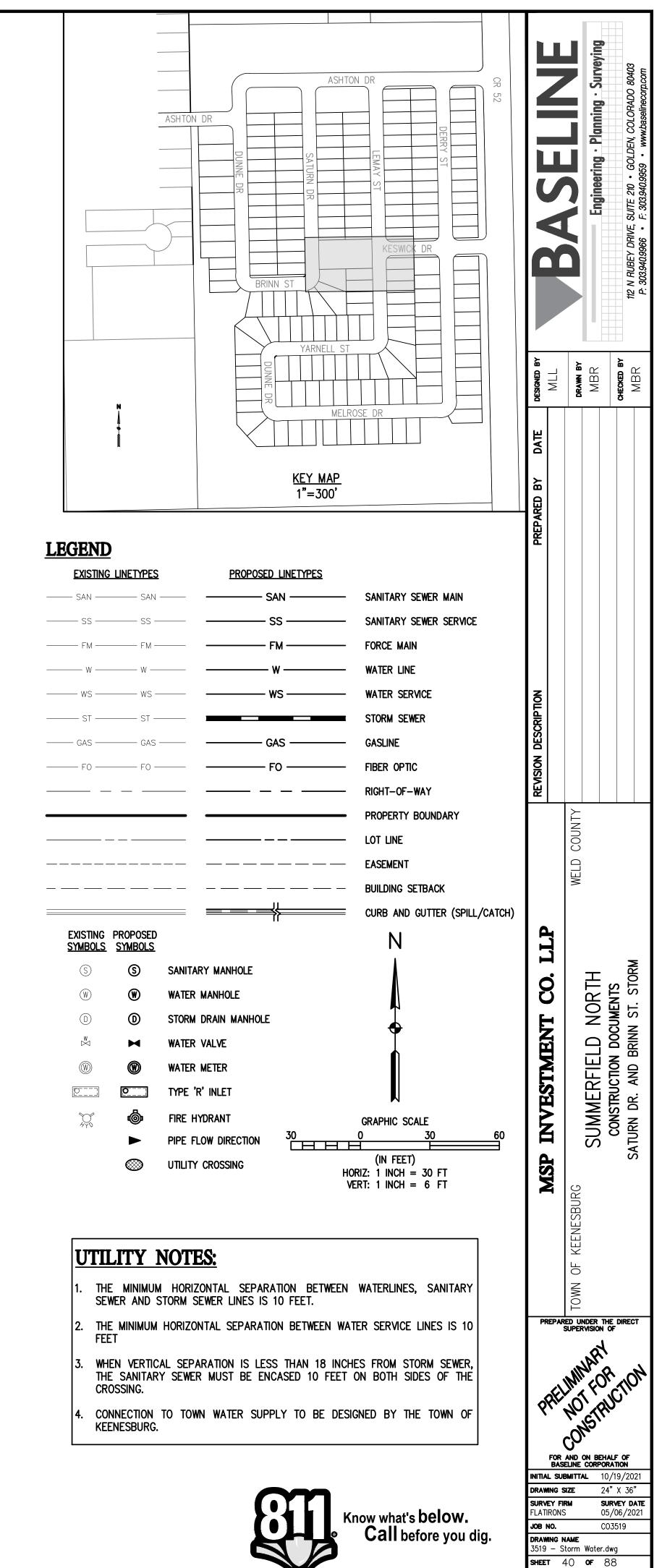




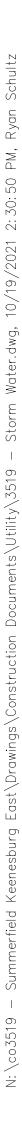


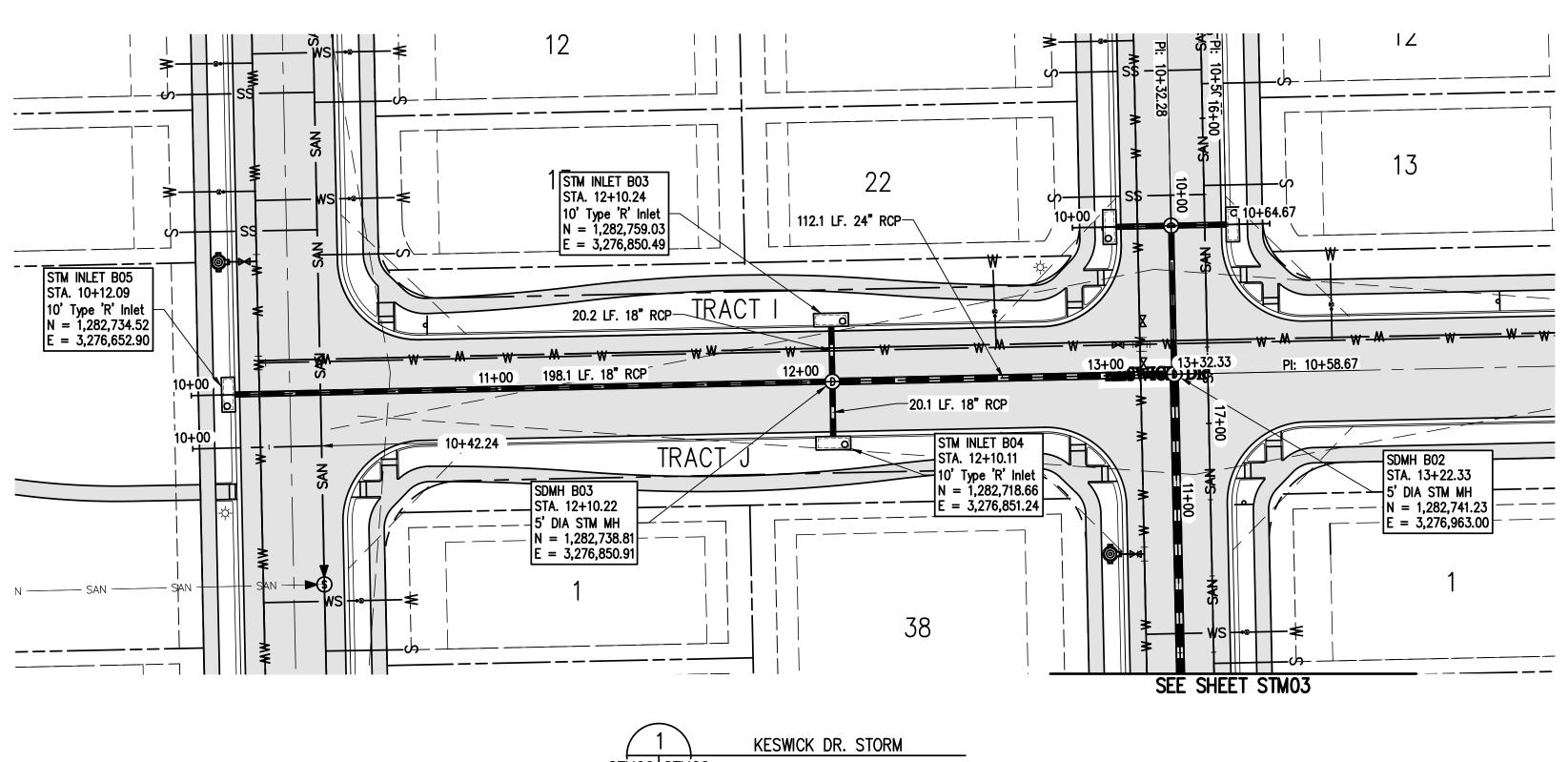




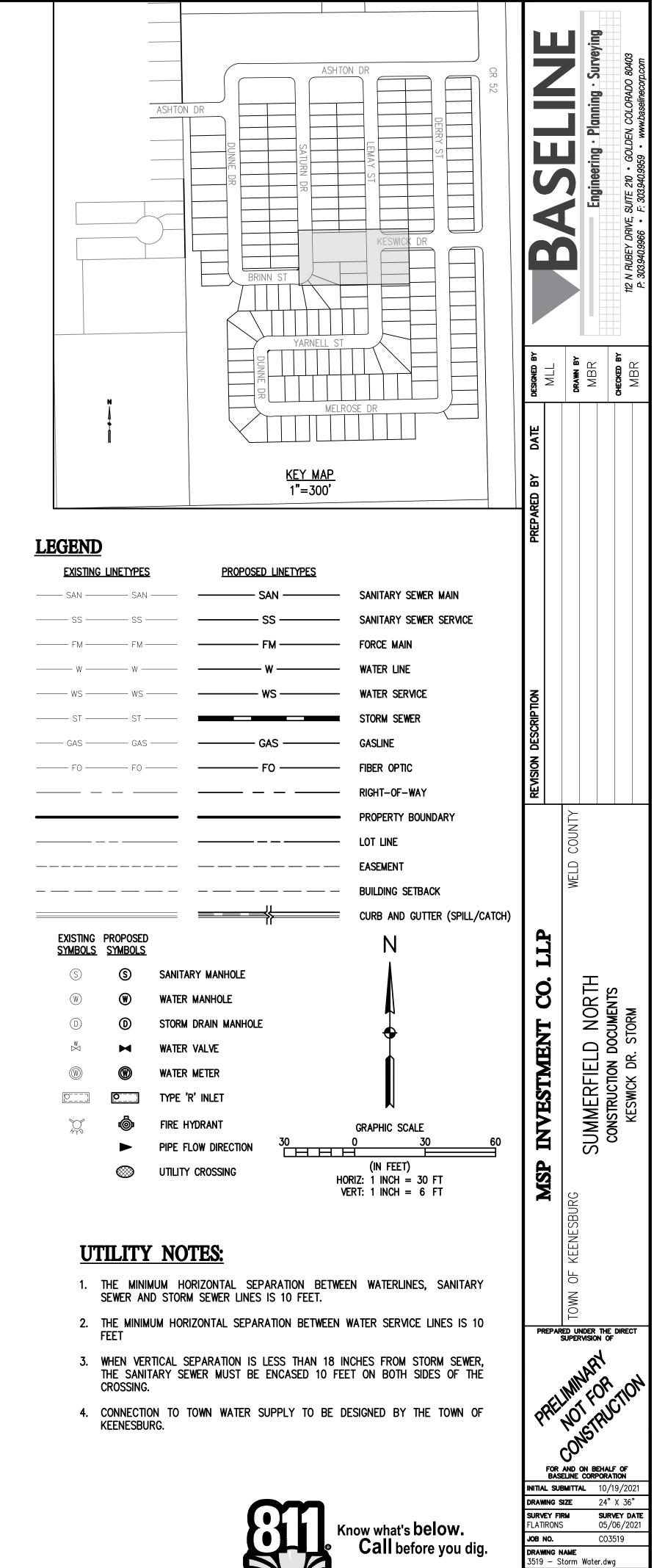


STM01



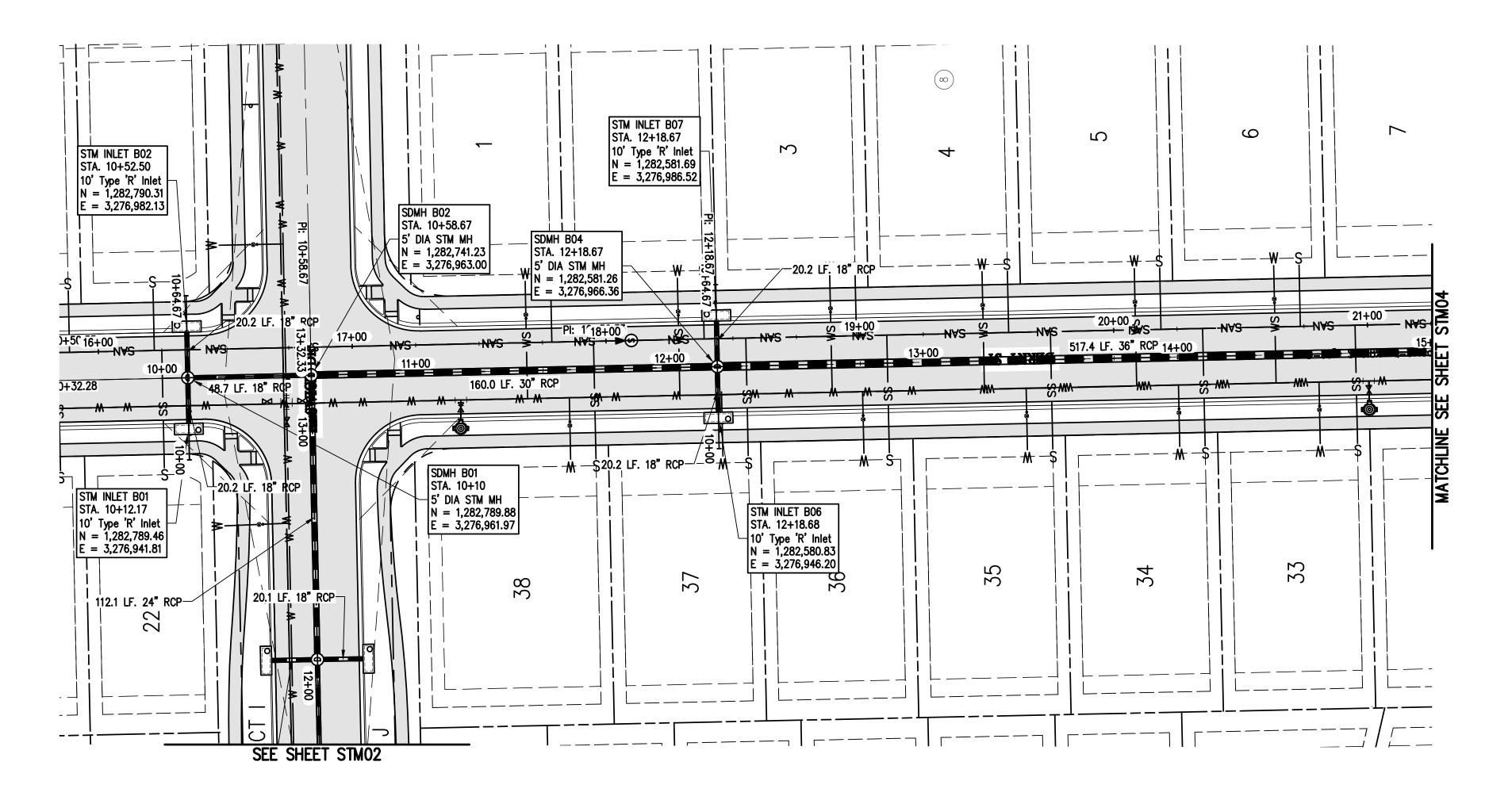


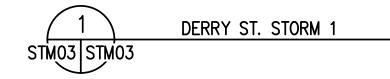
STM02 STM02

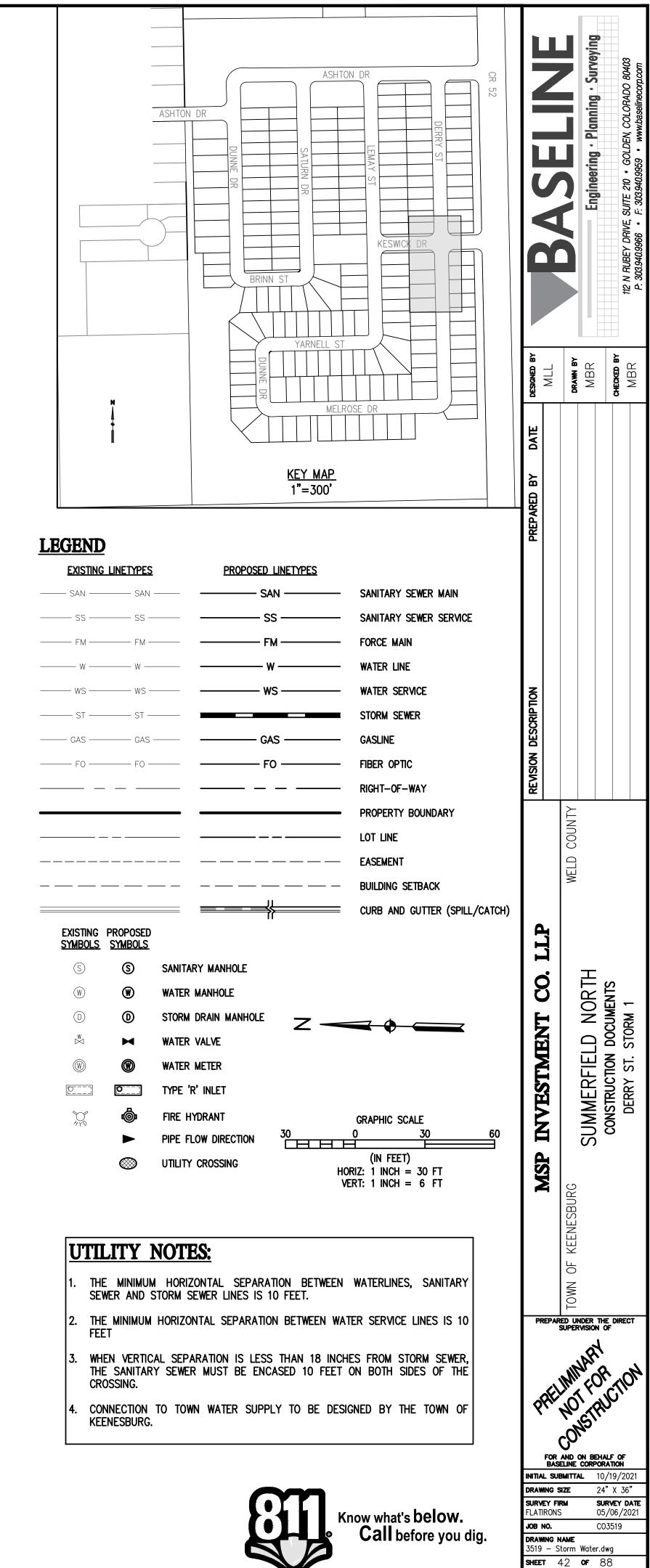


Know what's **below.** Call before you dig.

**Sheet** 41 **of** 88 STM02

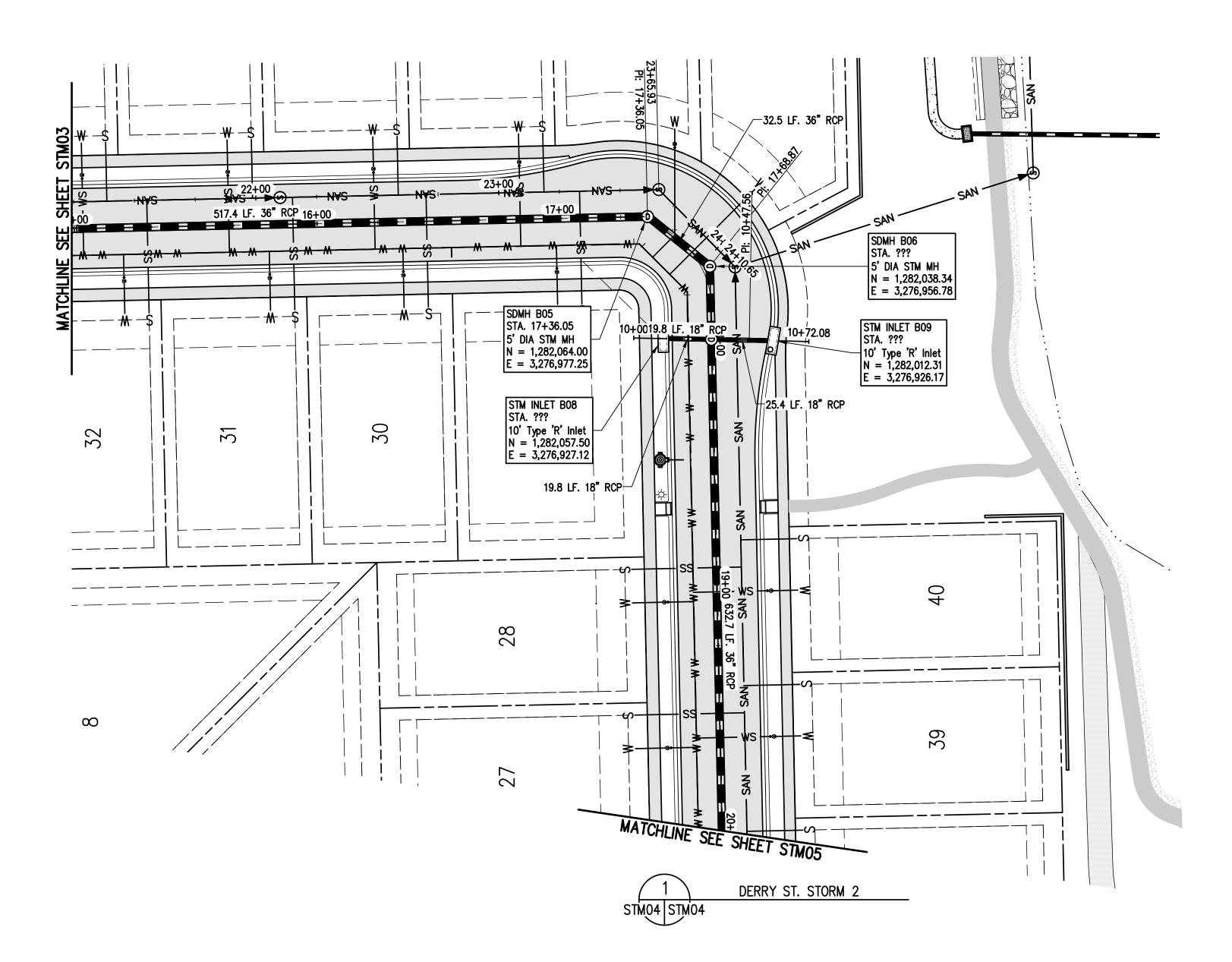


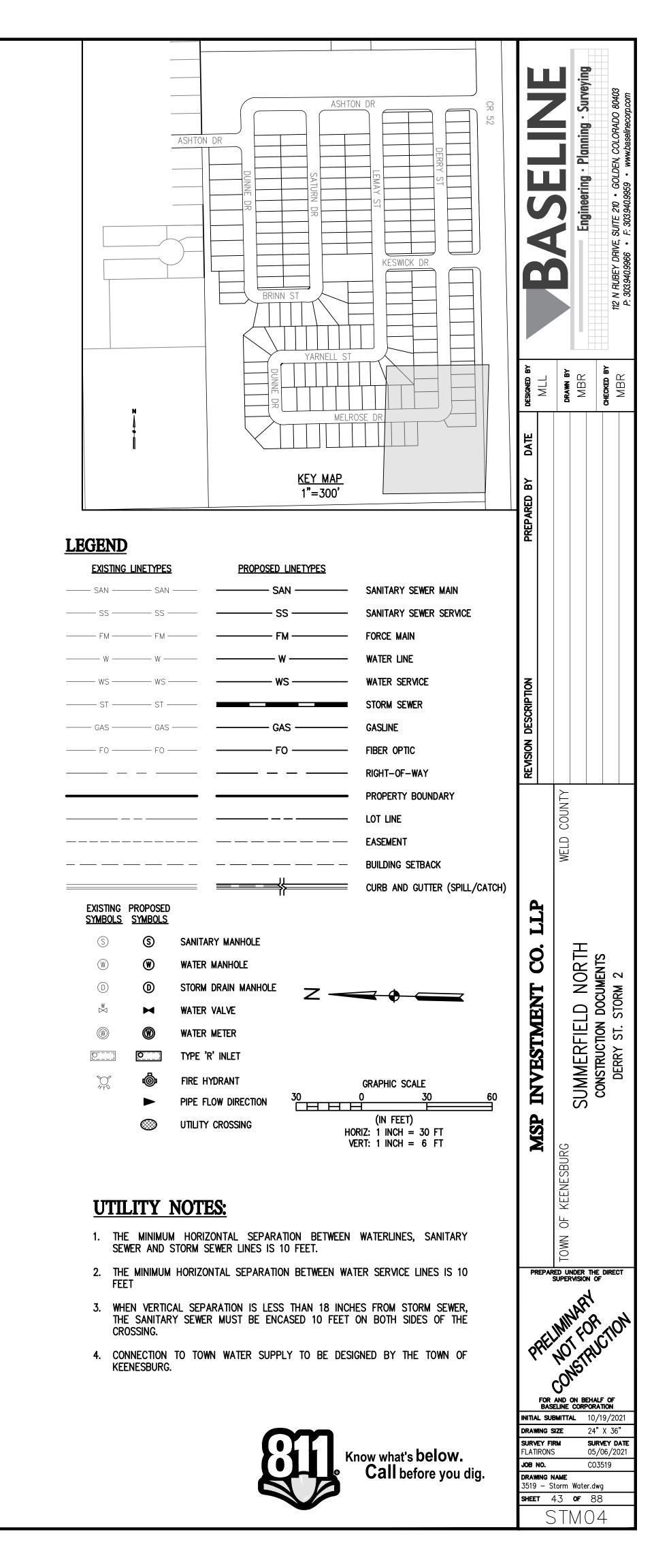


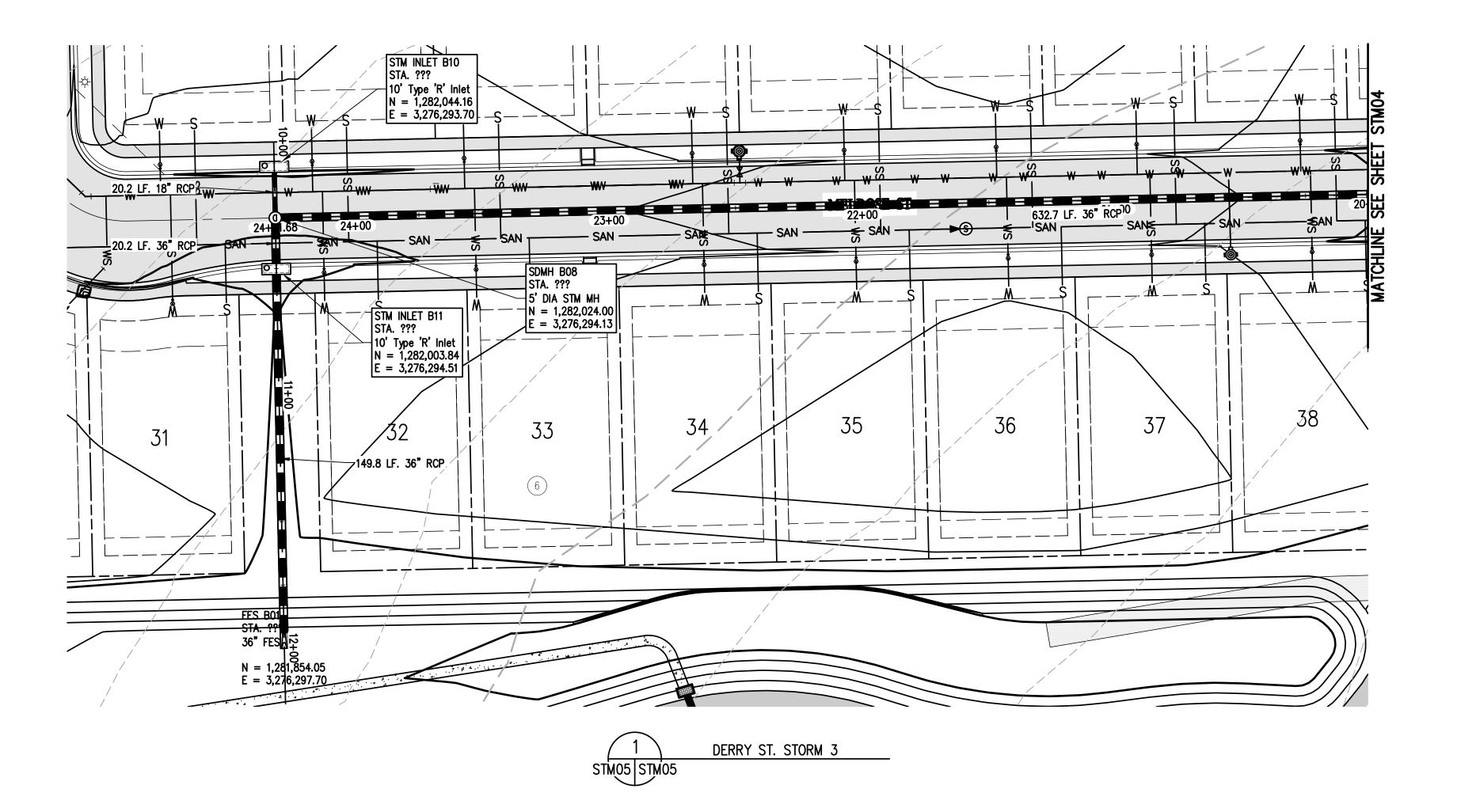


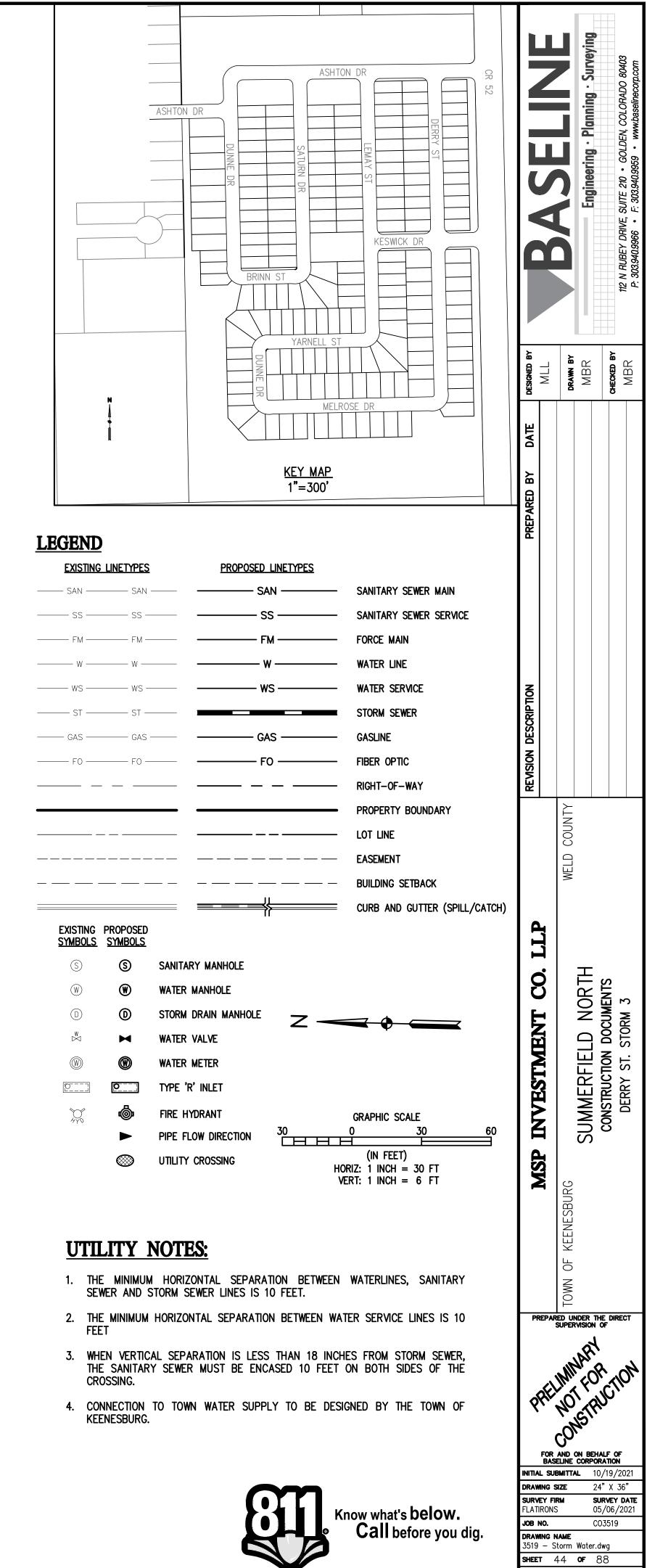
STM03





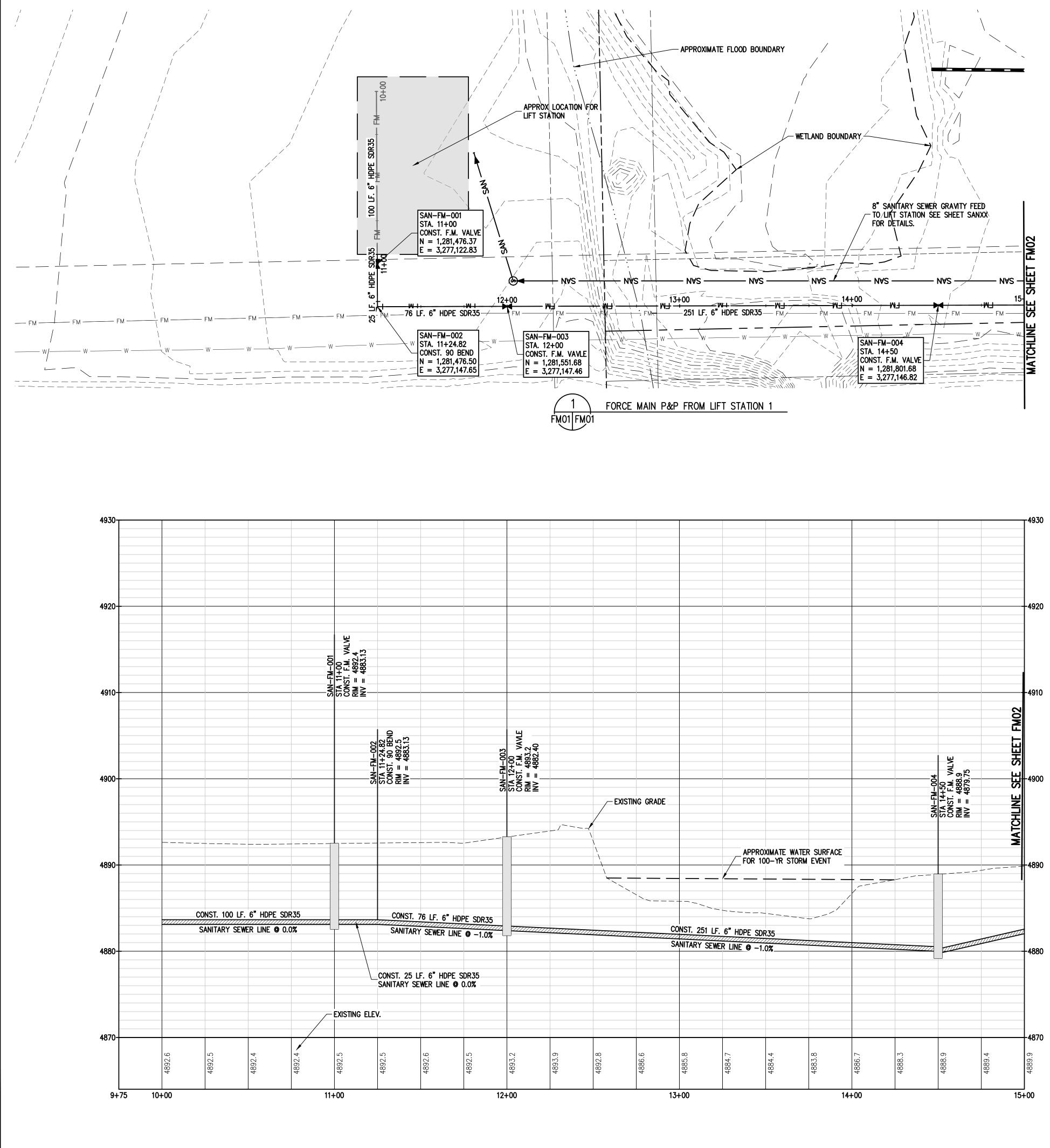


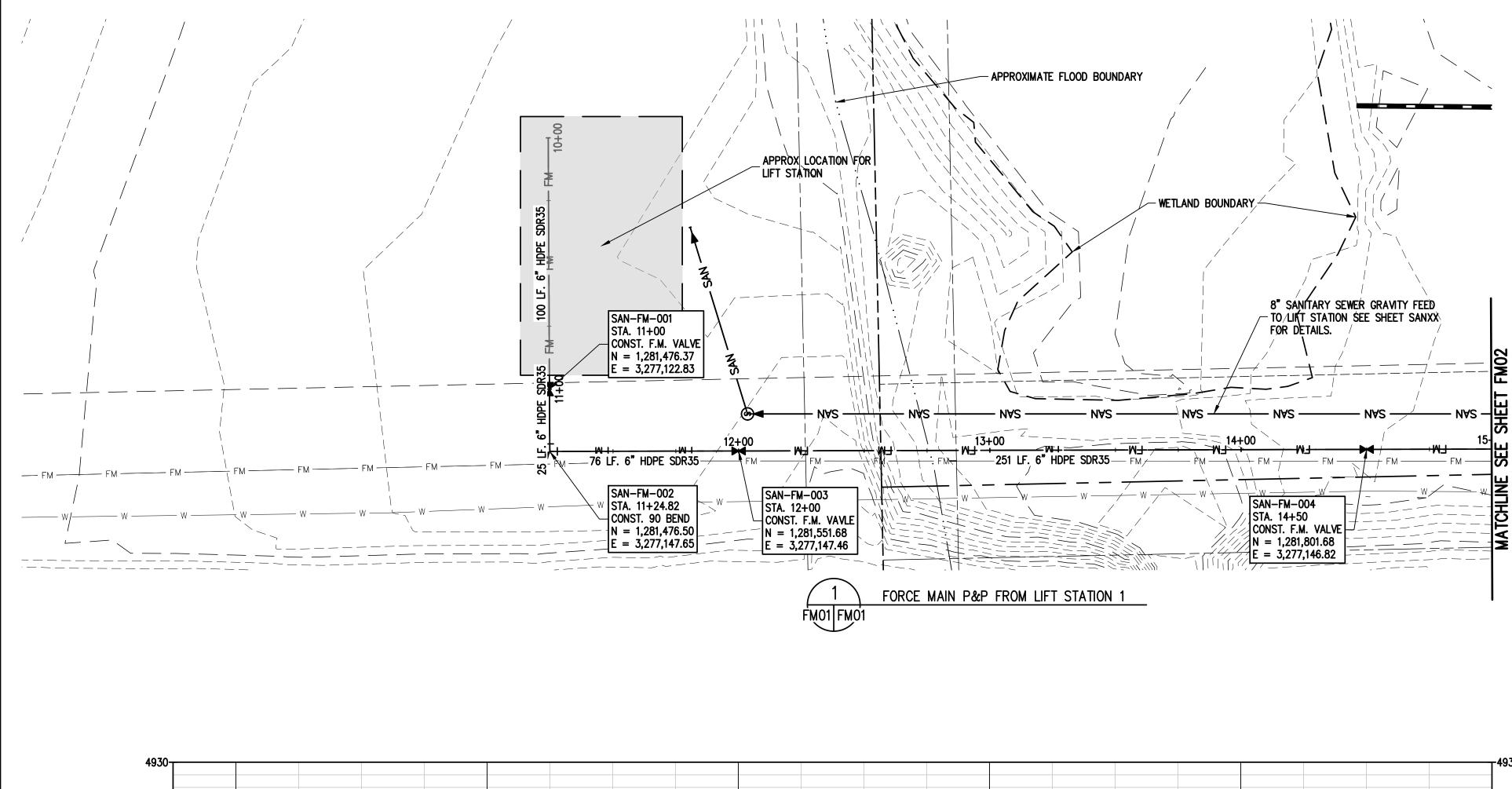


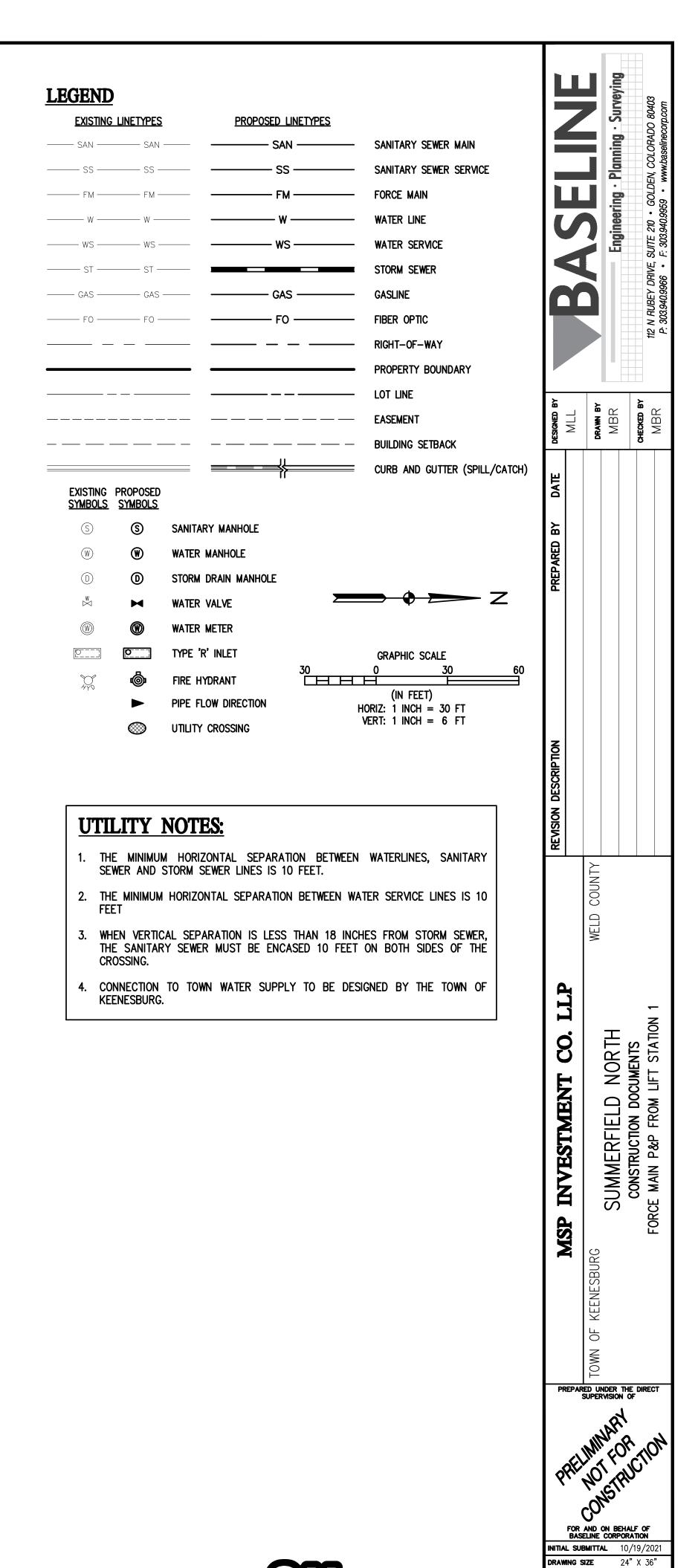


STM05











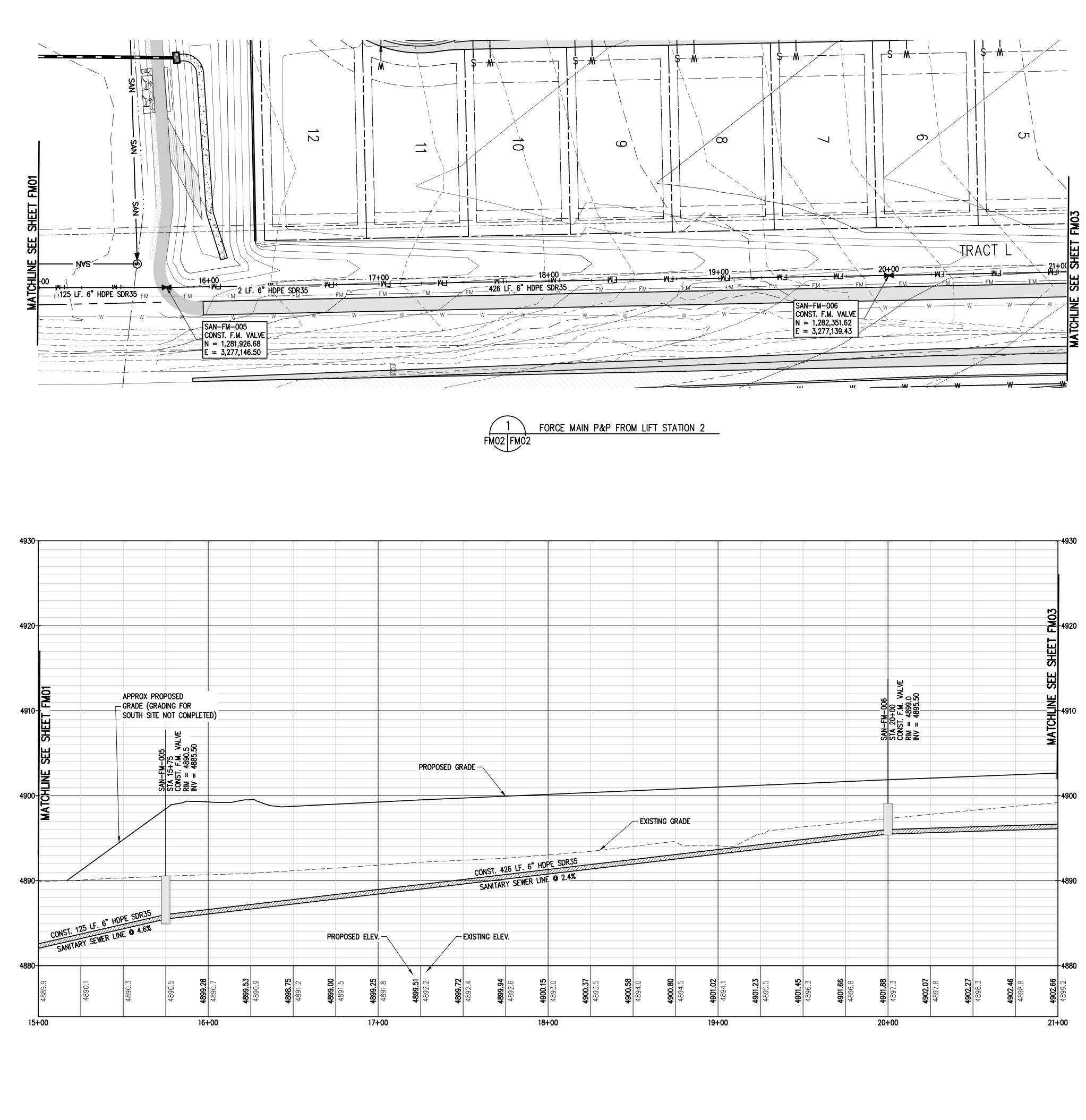
**Sheet** 45 **of** 88 FM01

JOB NO. CO35 DRAWING NAME 3519 - Force Main.dwg

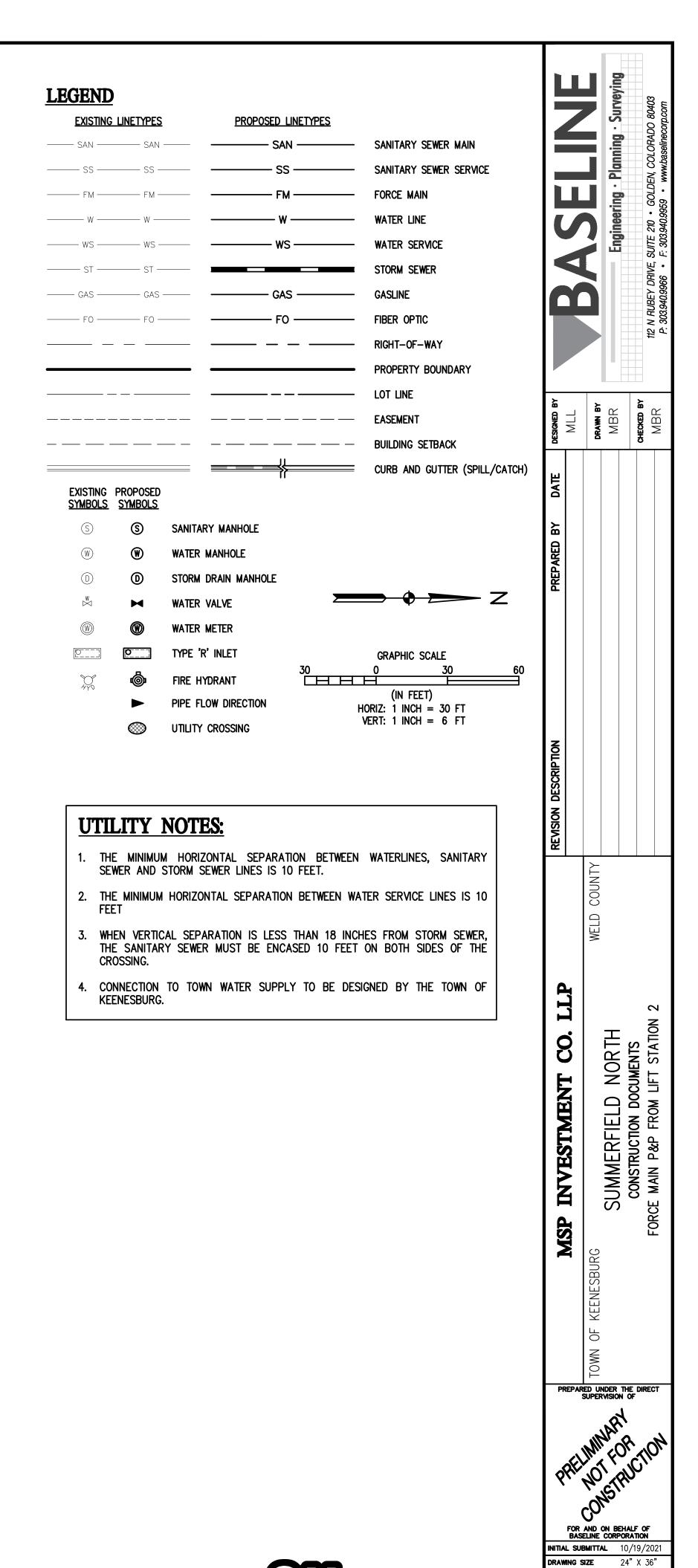
SURVEY DATE 05/06/2021

CO3519

**Survey Firm** Flatirons



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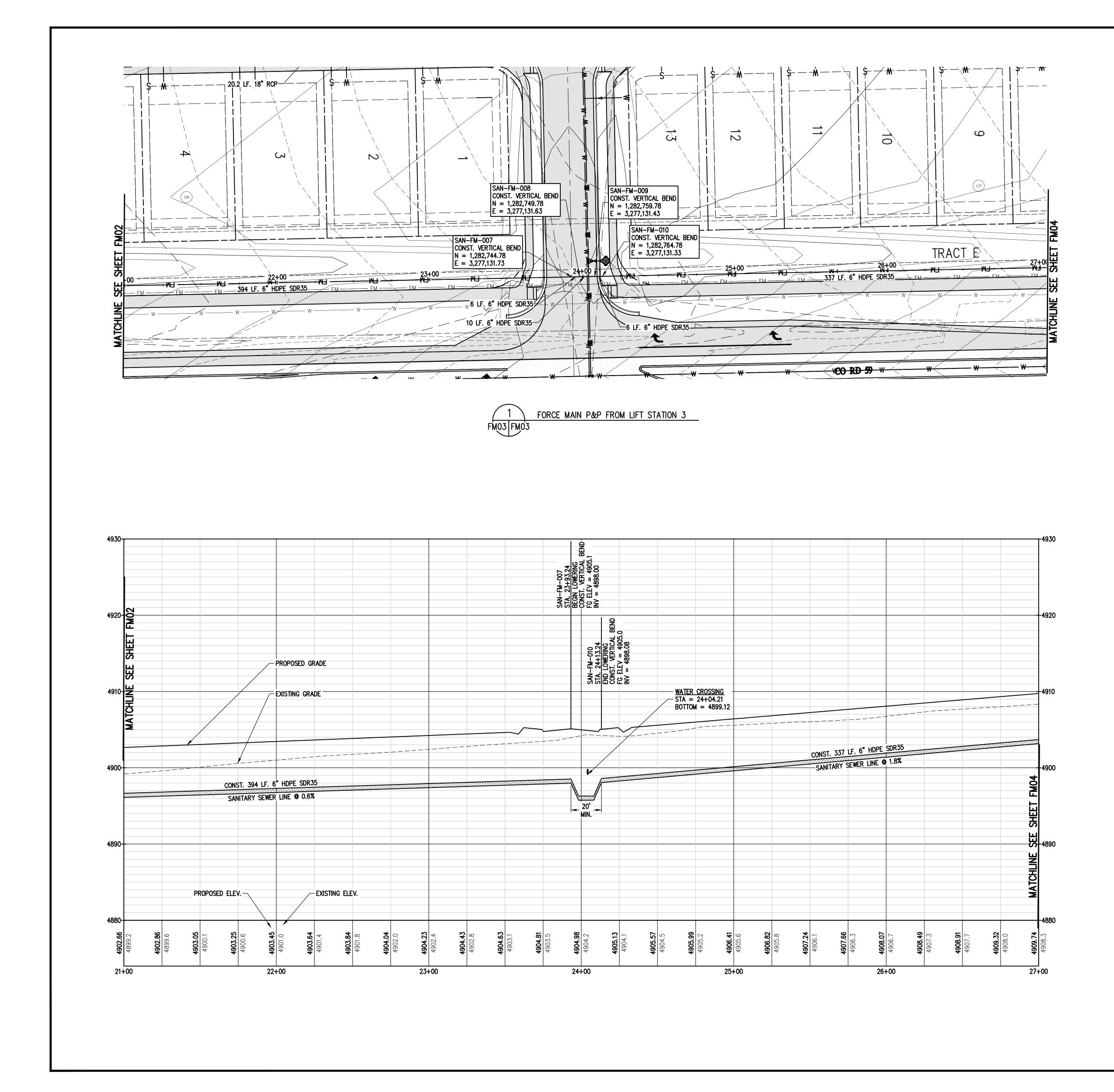
sheet 46 of 88 FM02

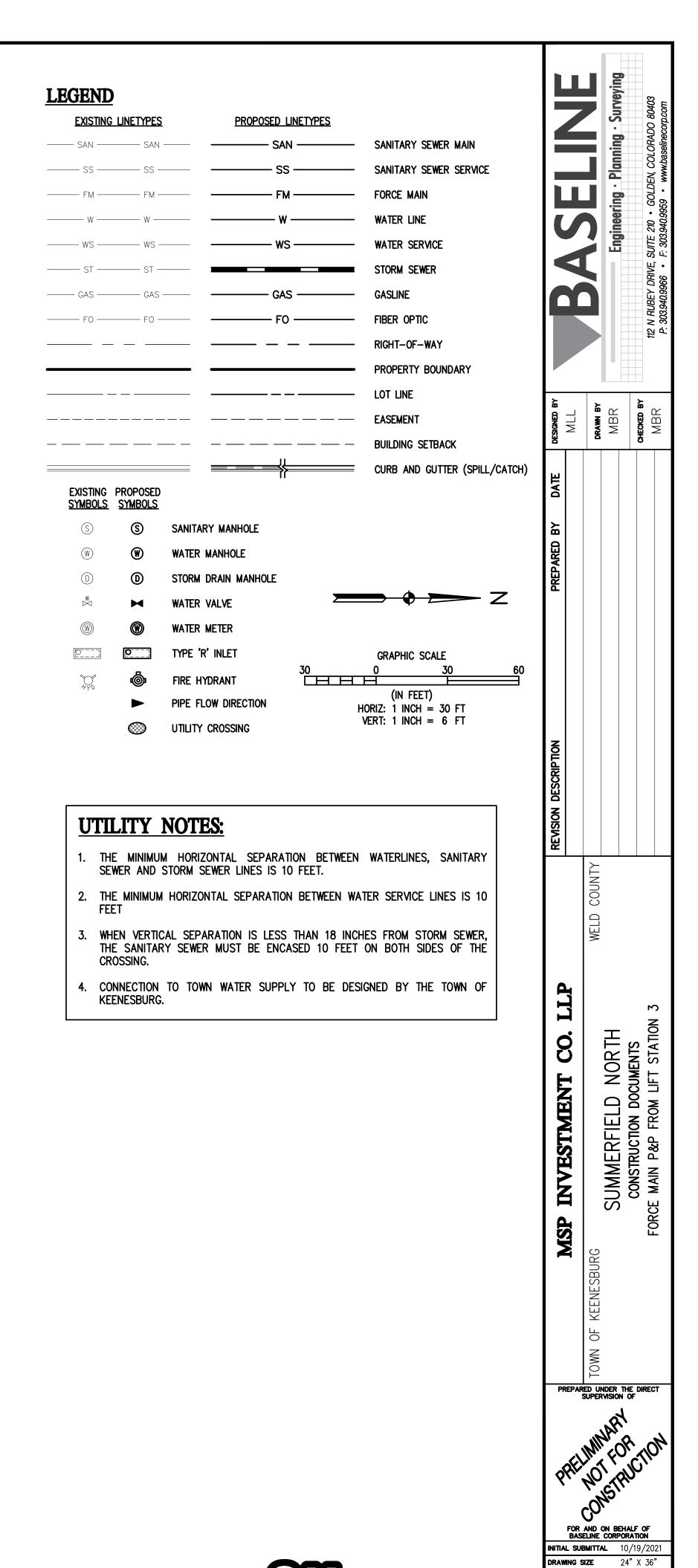
JOB NO. CO35 DRAWING NAME 3519 - Force Main.dwg

**SURVEY DATE** 05/06/2021

CO3519

**Survey Firm** Flatirons







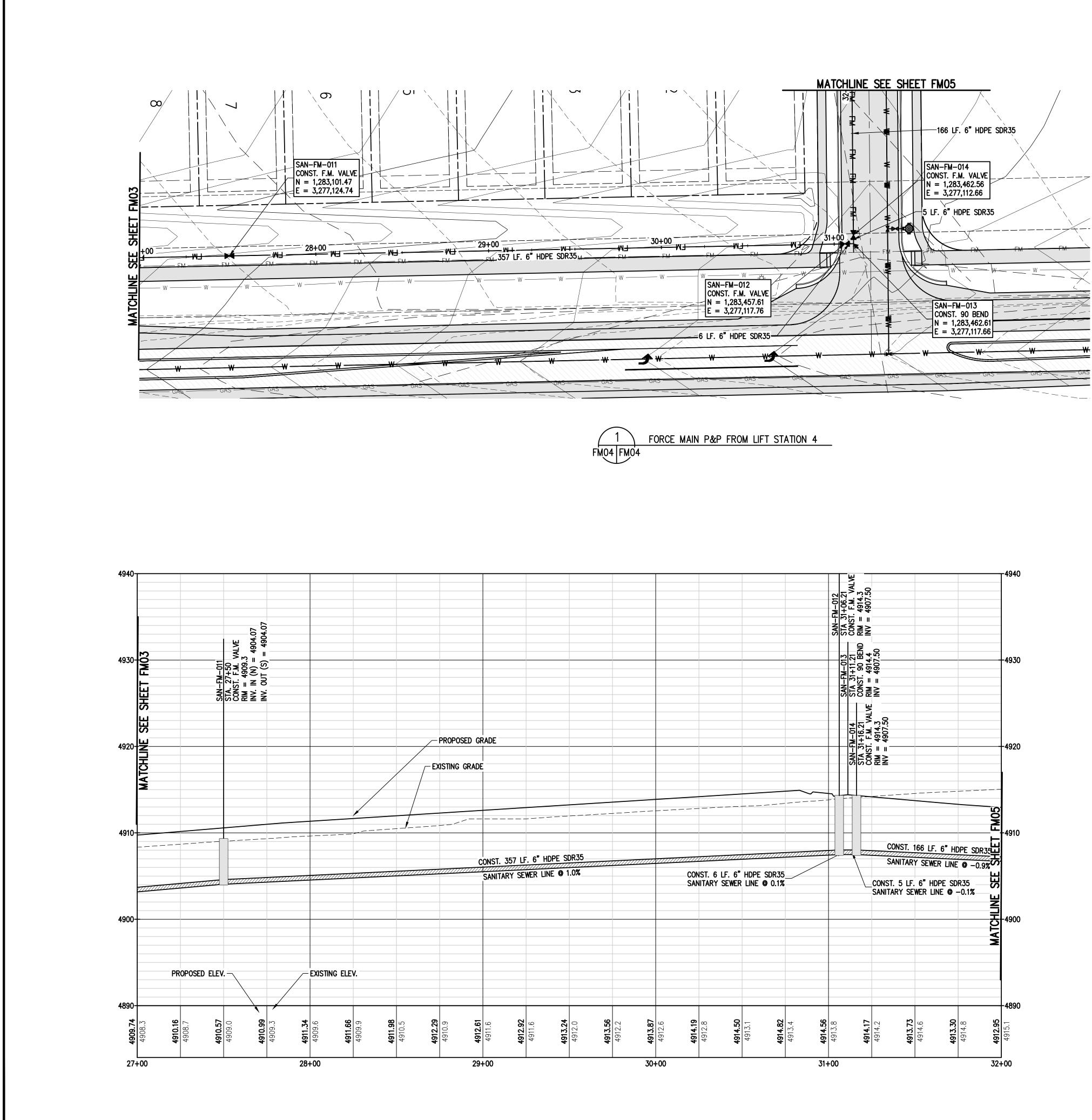
**Sheet** 47 **of** 88 FM03

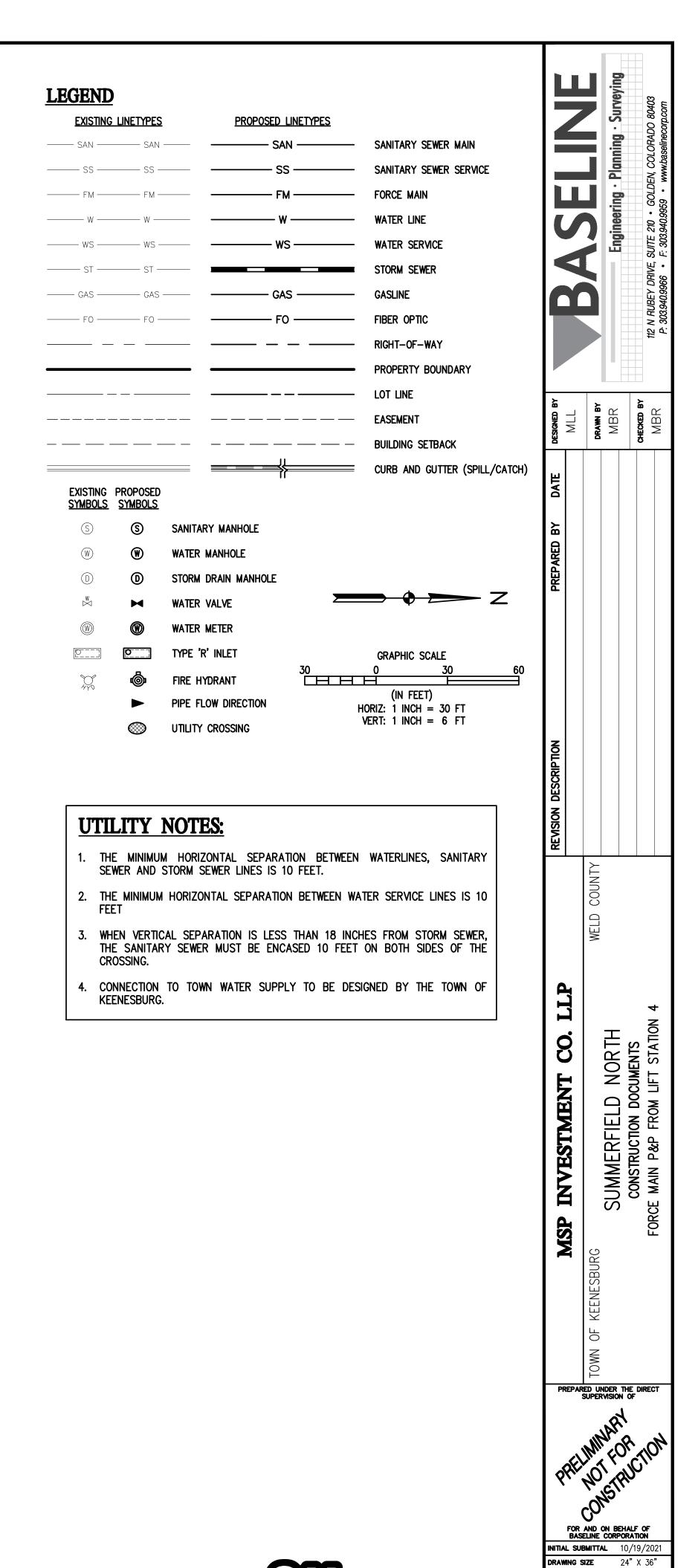
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SURVEY DATE 05/06/2021

CO3519

**Survey Firm** Flatirons







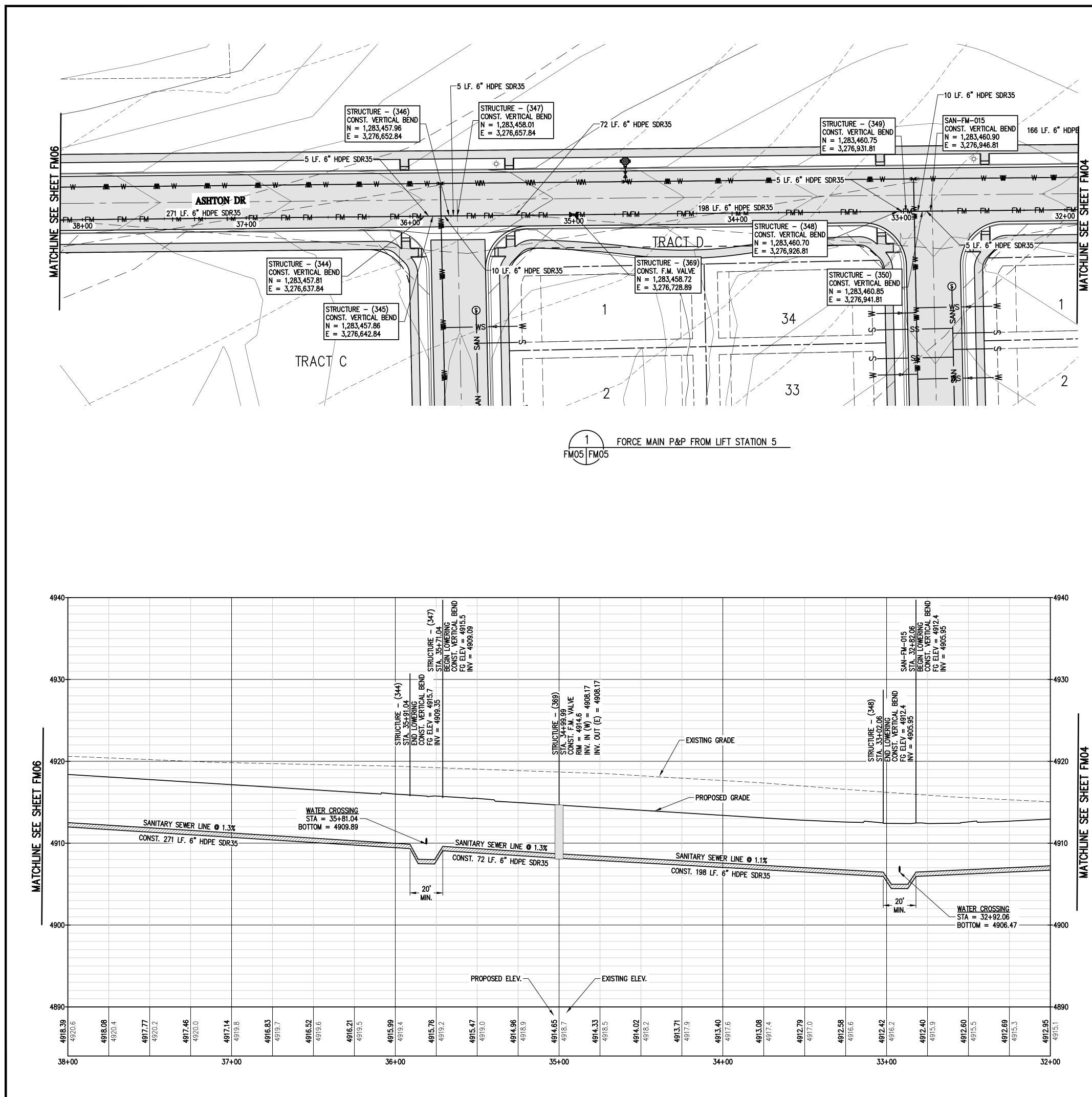
**Sheet** 48 **of** 88 FM04

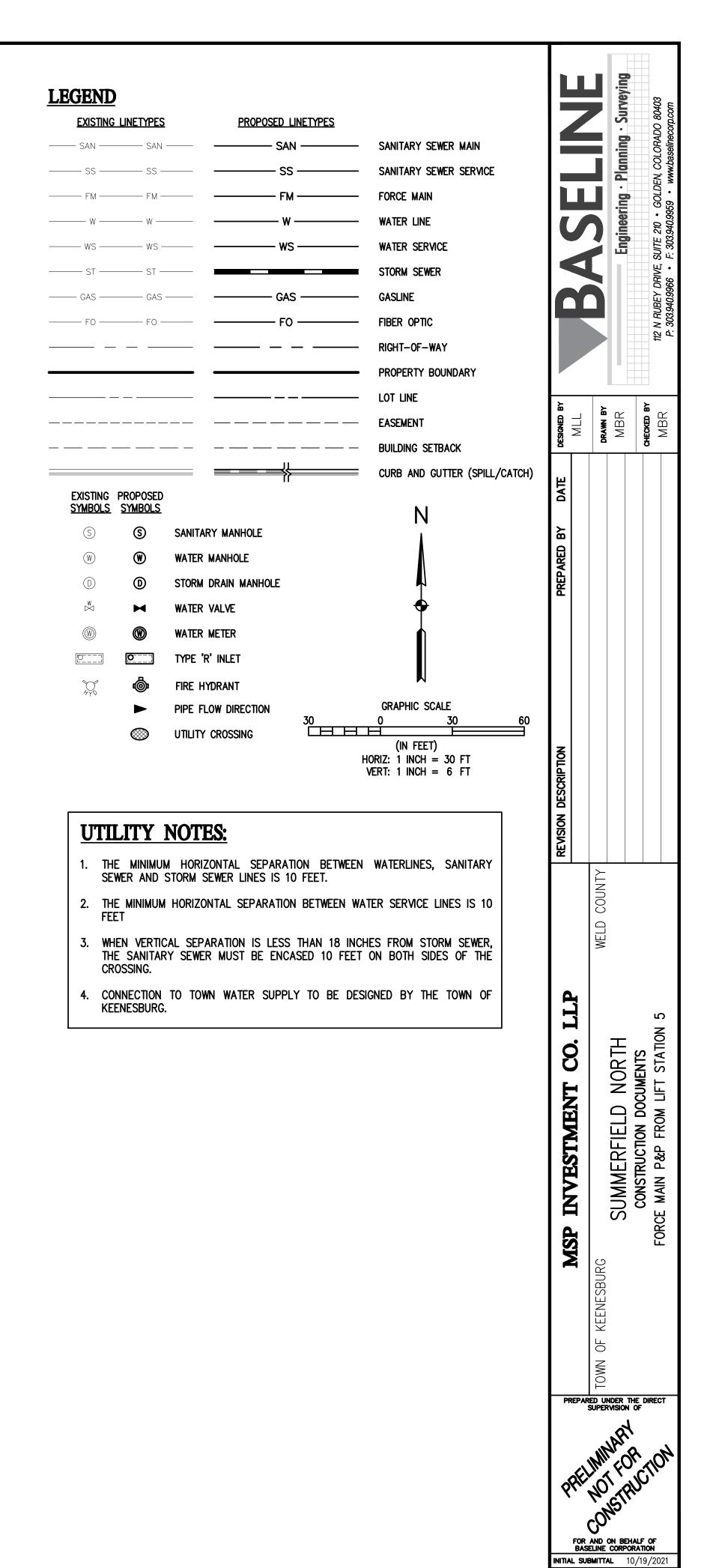
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SURVEY DATE 05/06/2021

CO3519

SURVEY FIRM FLATIRONS







SHEET 49 OF 88 FM05

JOB NO. C035 DRAWING NAME 3519 - Force Main.dwg

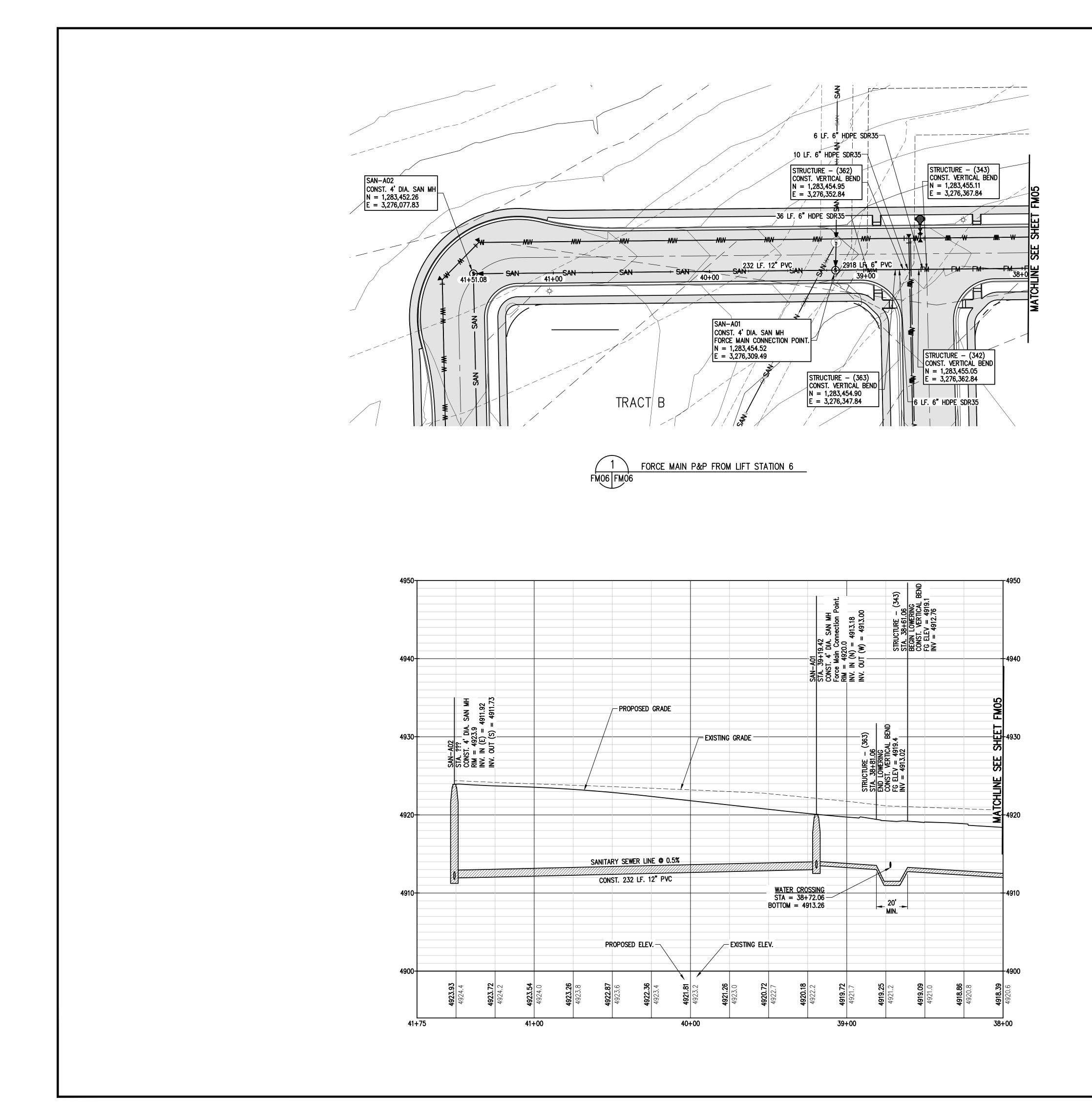
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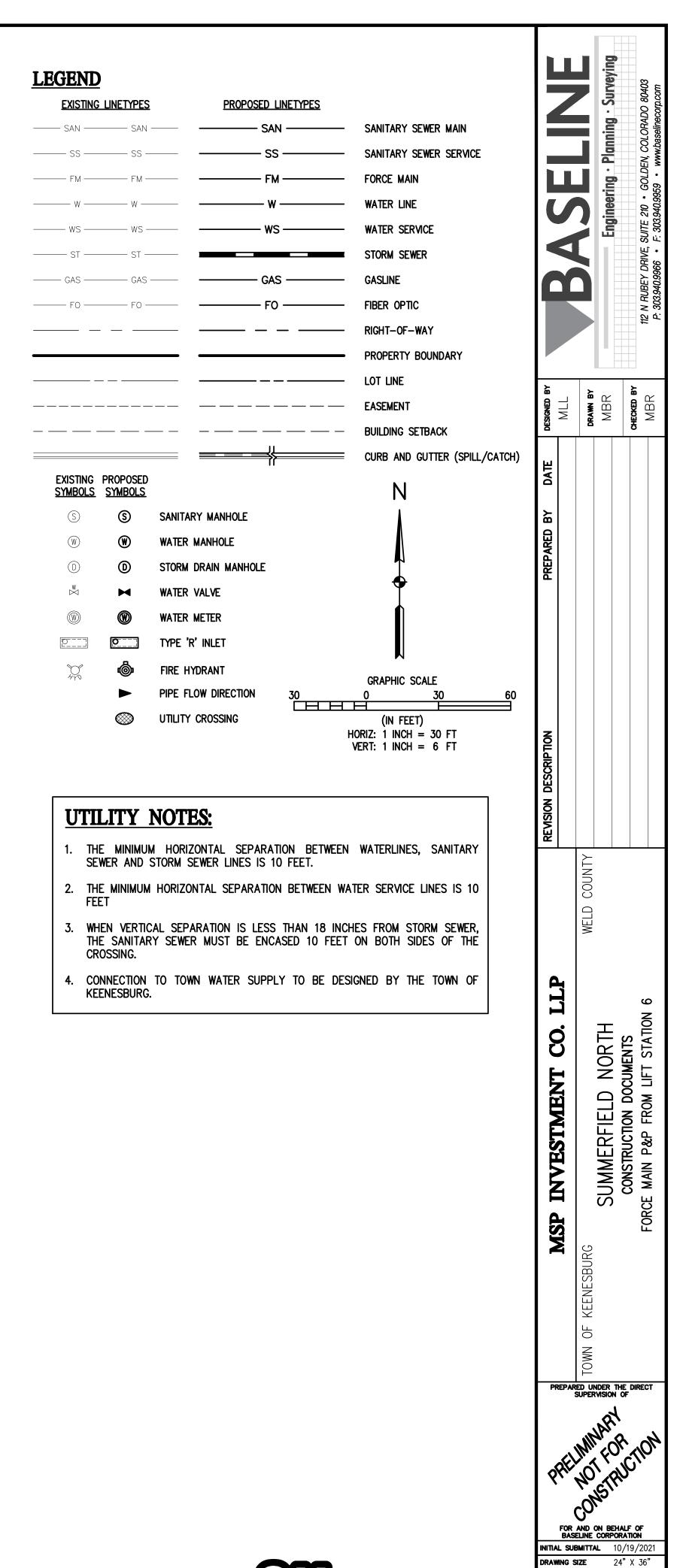
SURVEY DATE 05/06/2021

CO3519

SURVEY FIRM Flatirons









SHEET 50 OF 88 FM06

SURVEY DATE 05/06/2021

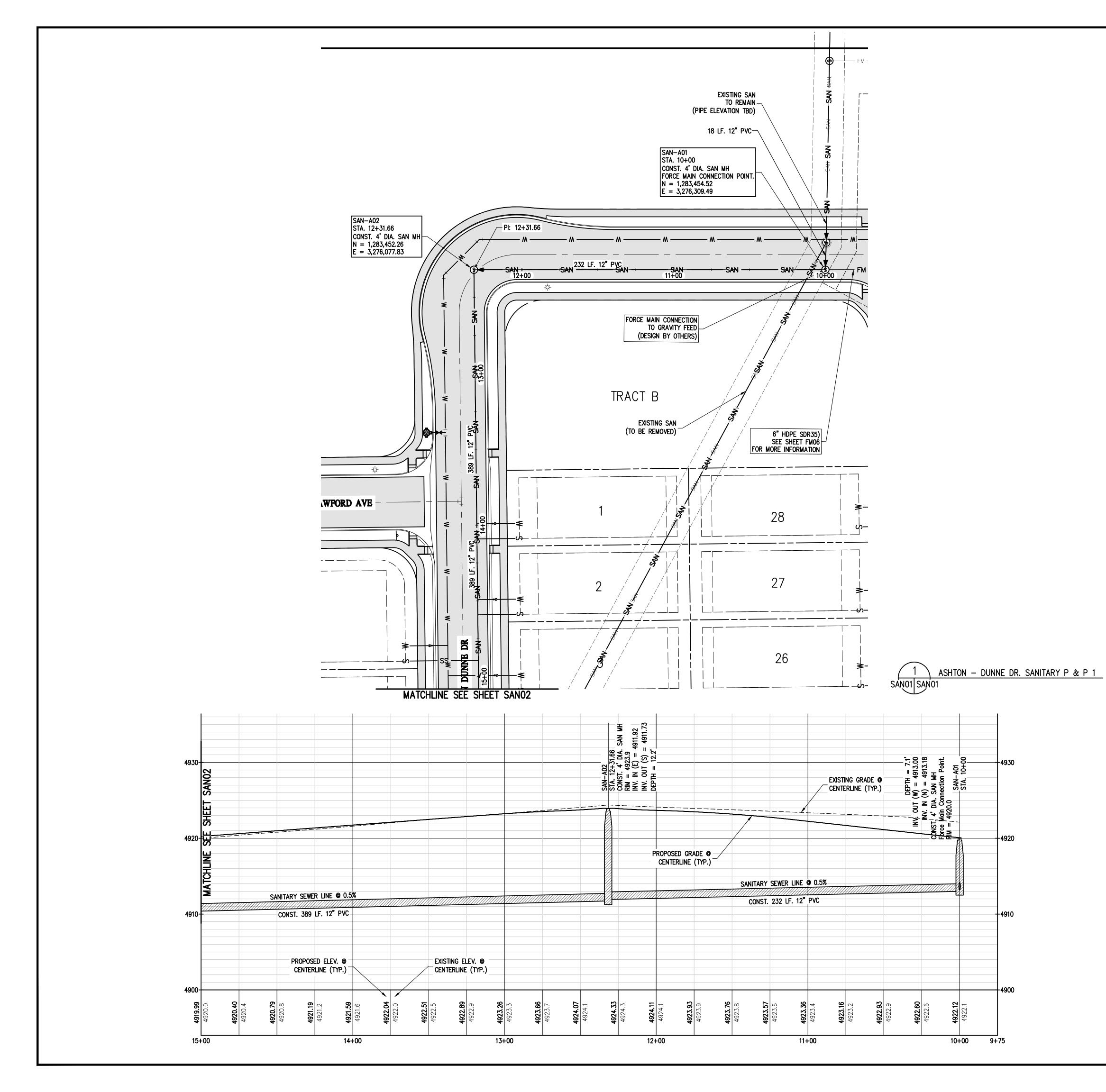
CO3519

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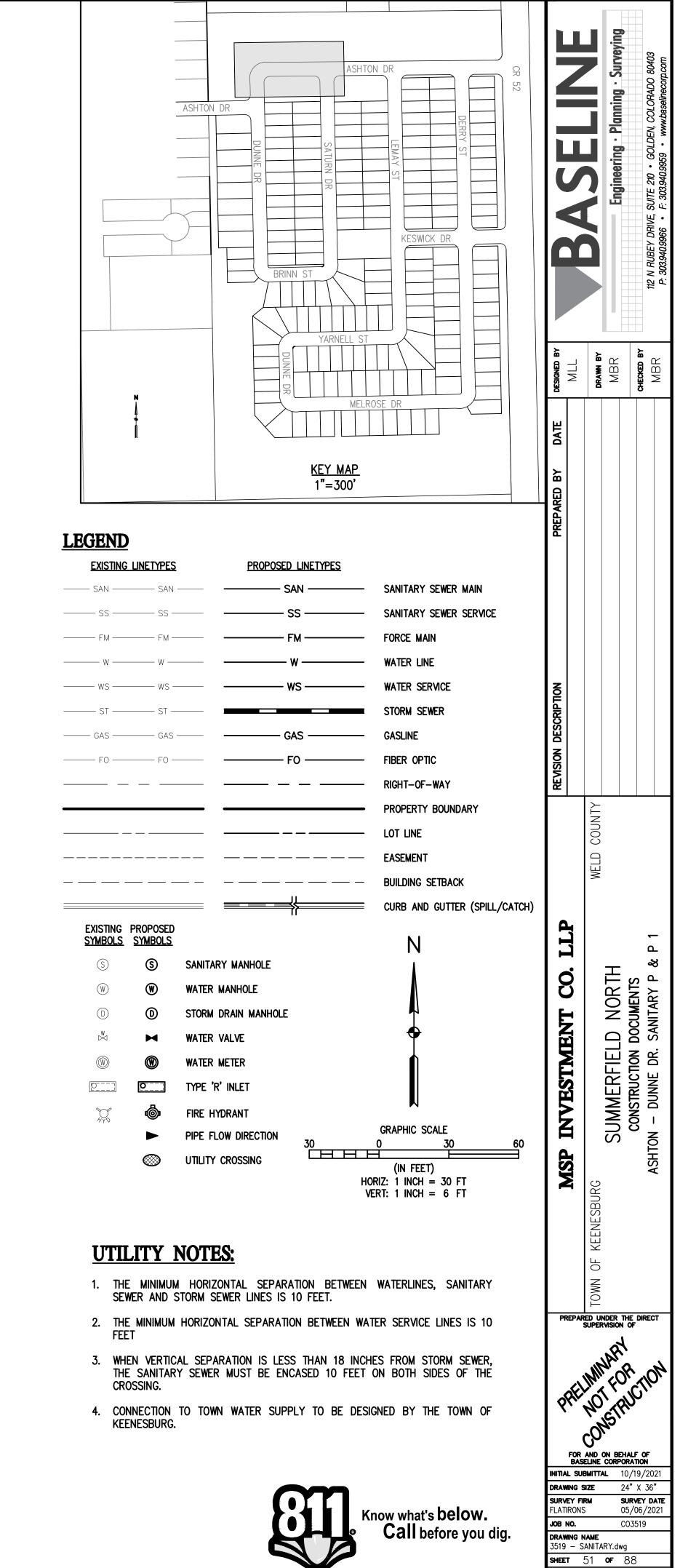
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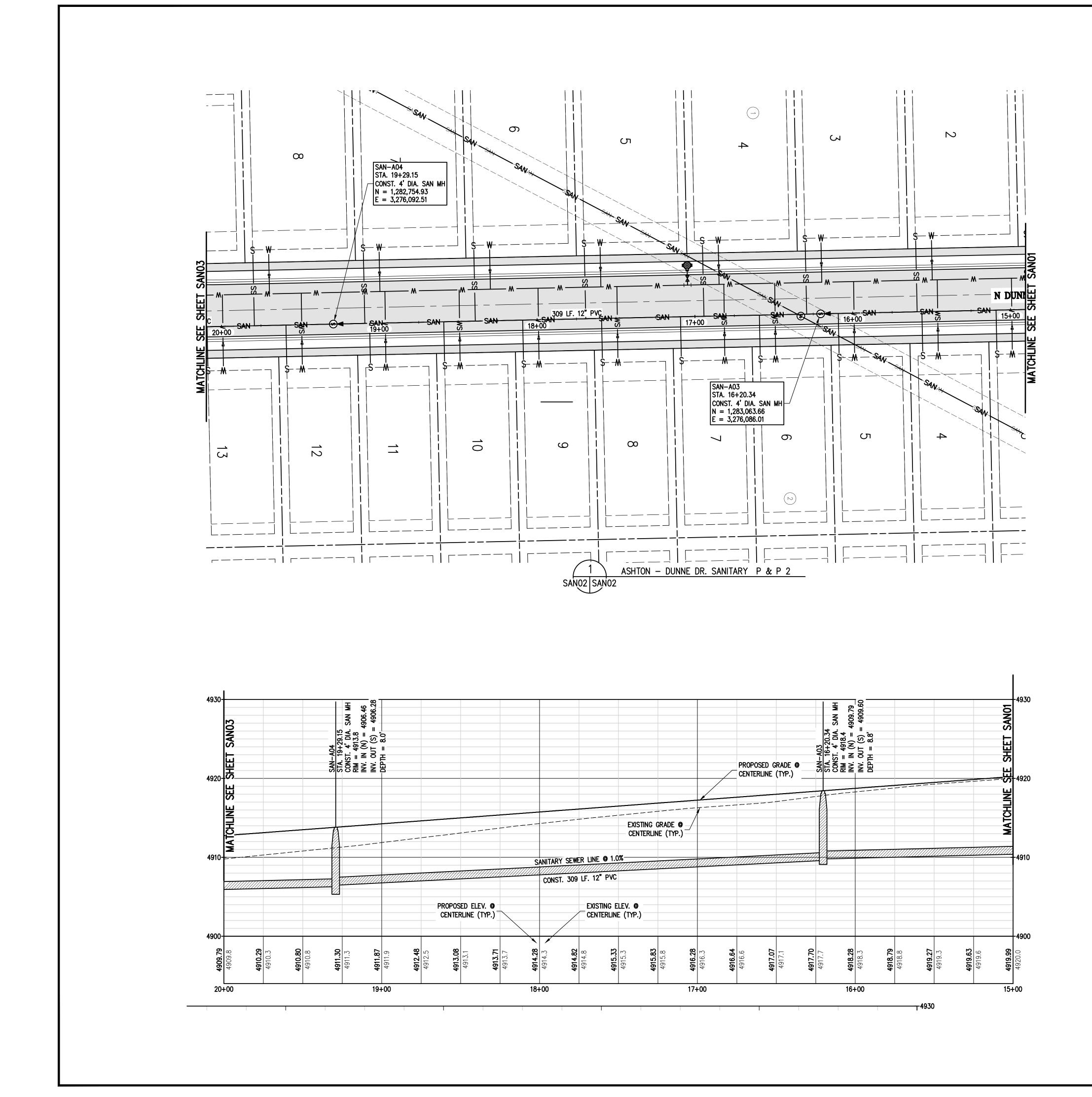
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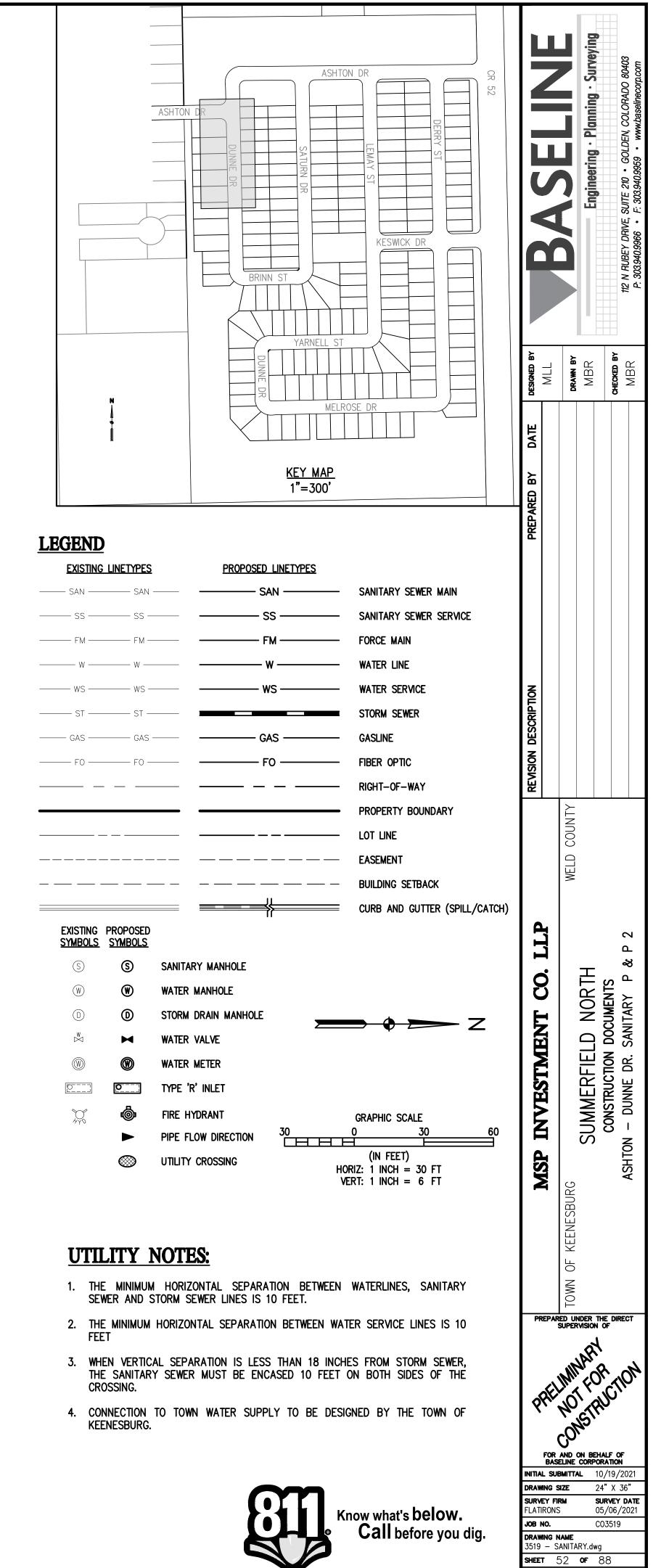
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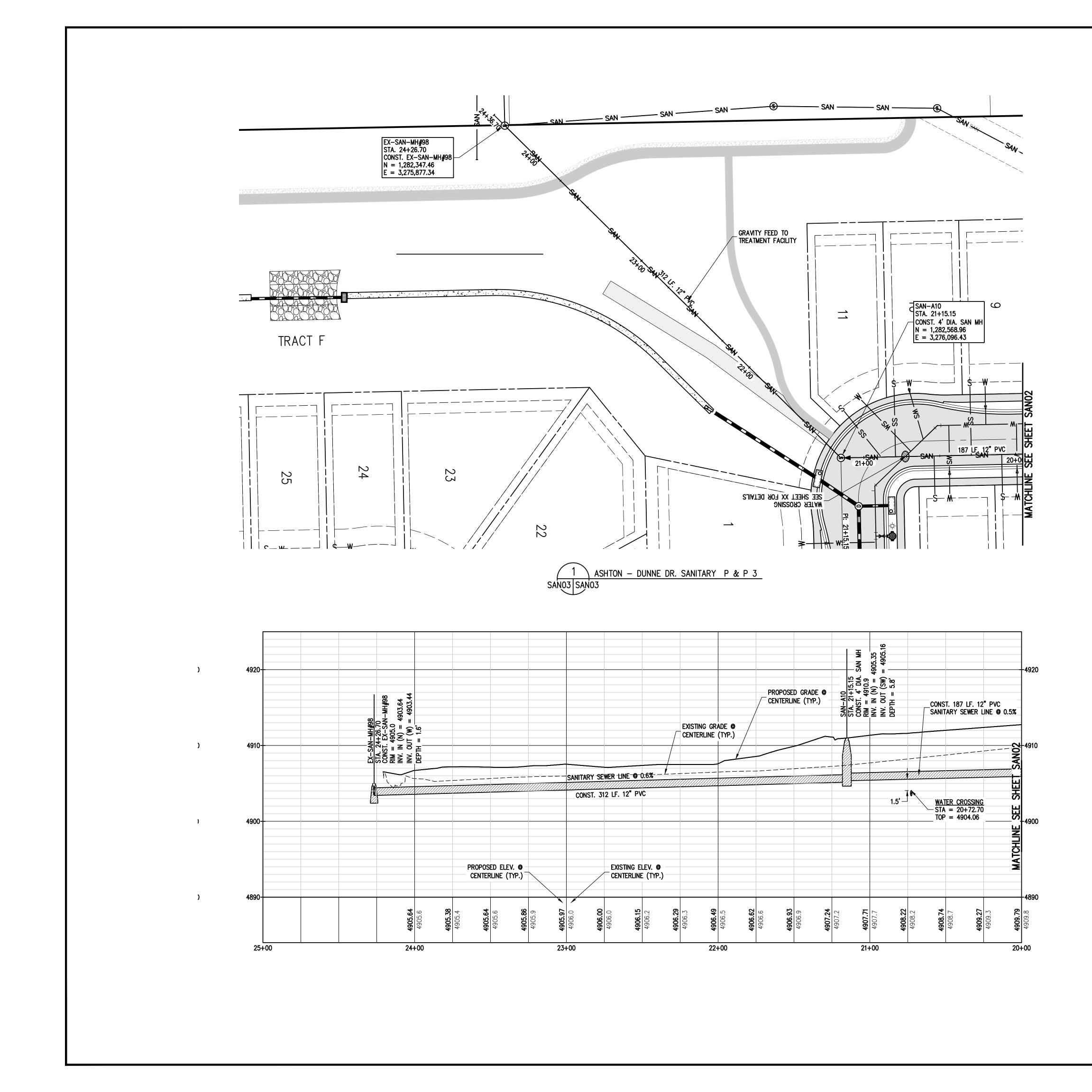


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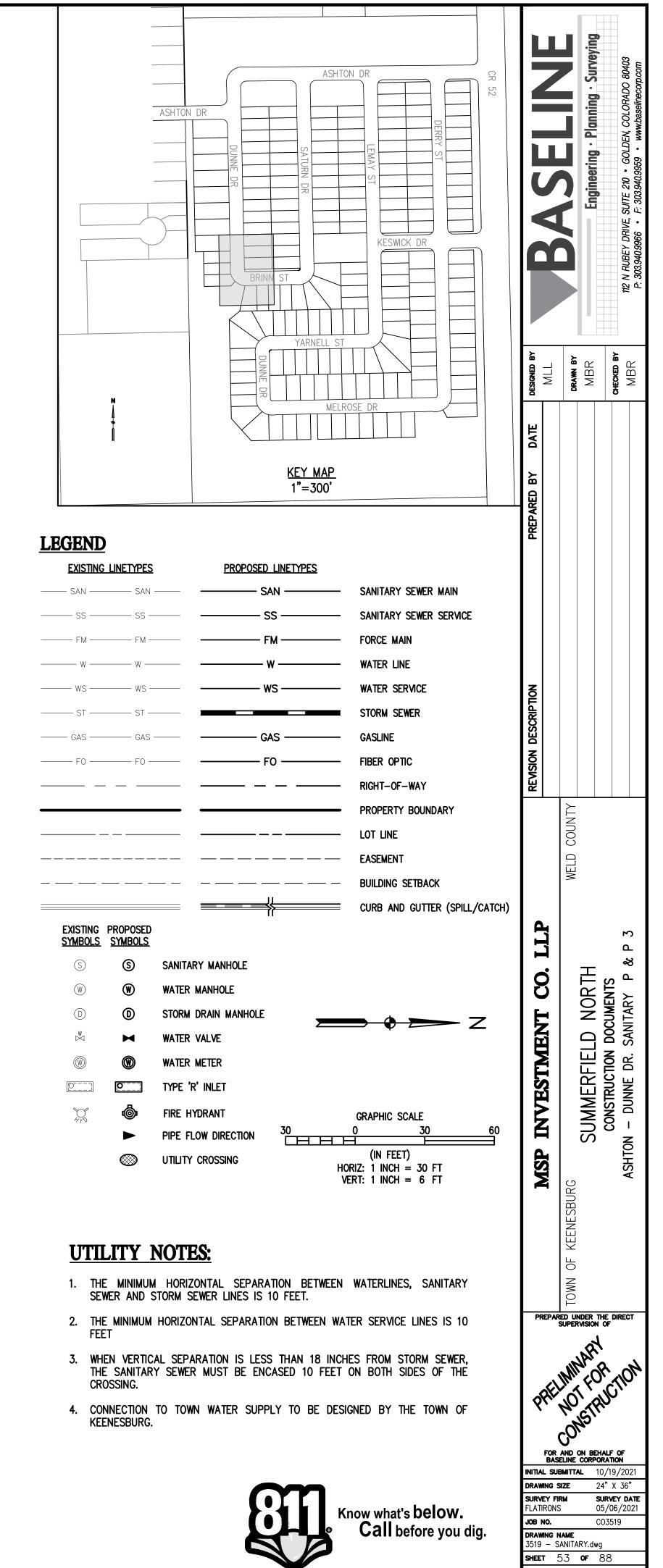


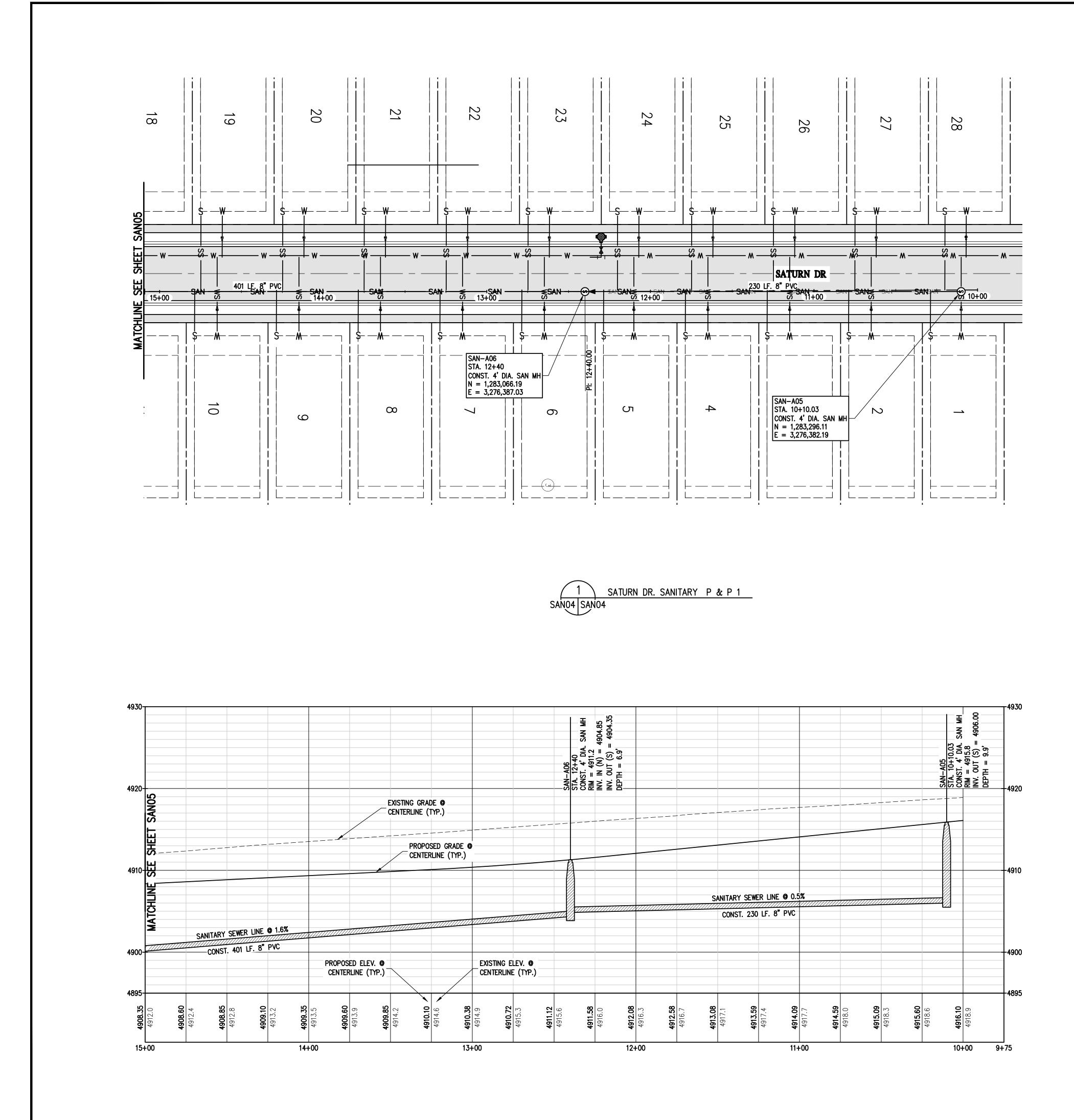


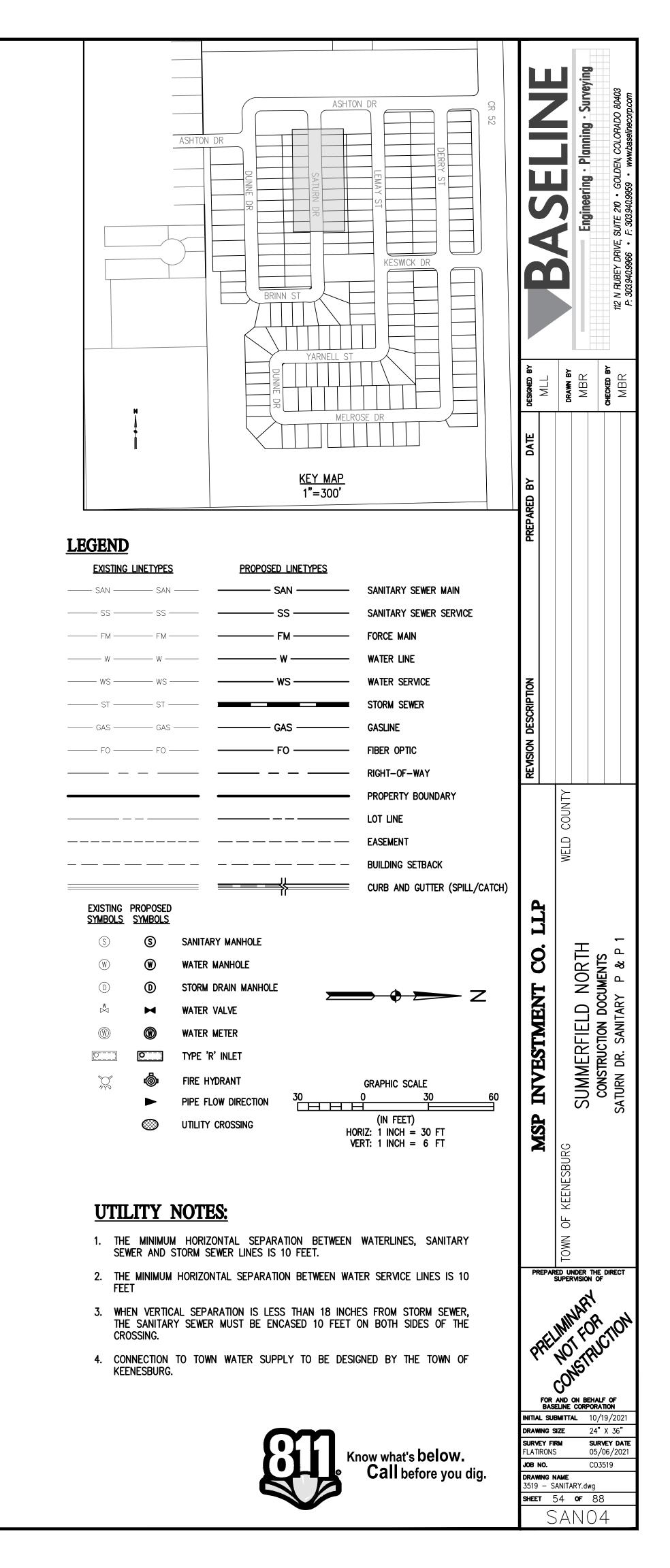


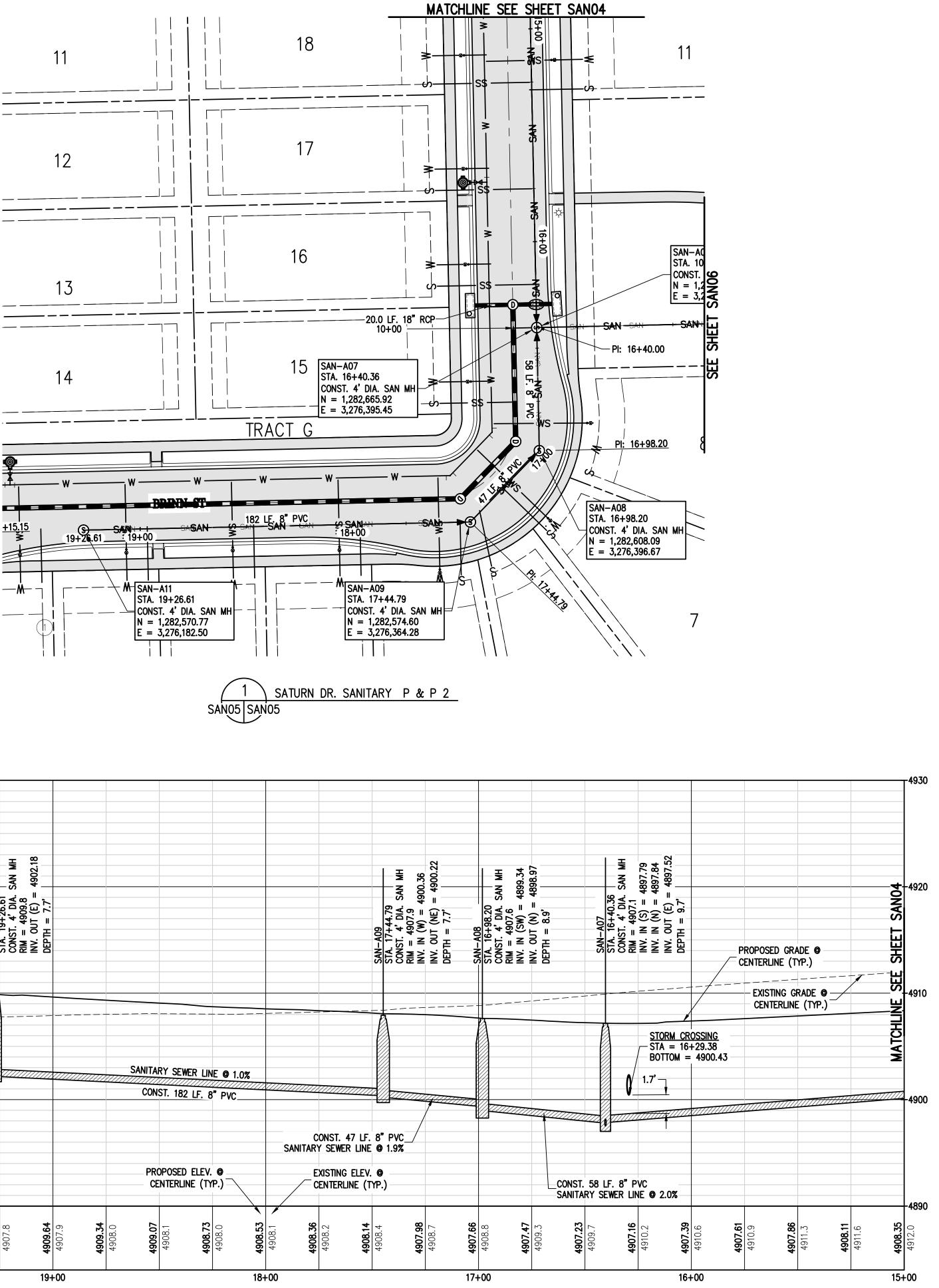


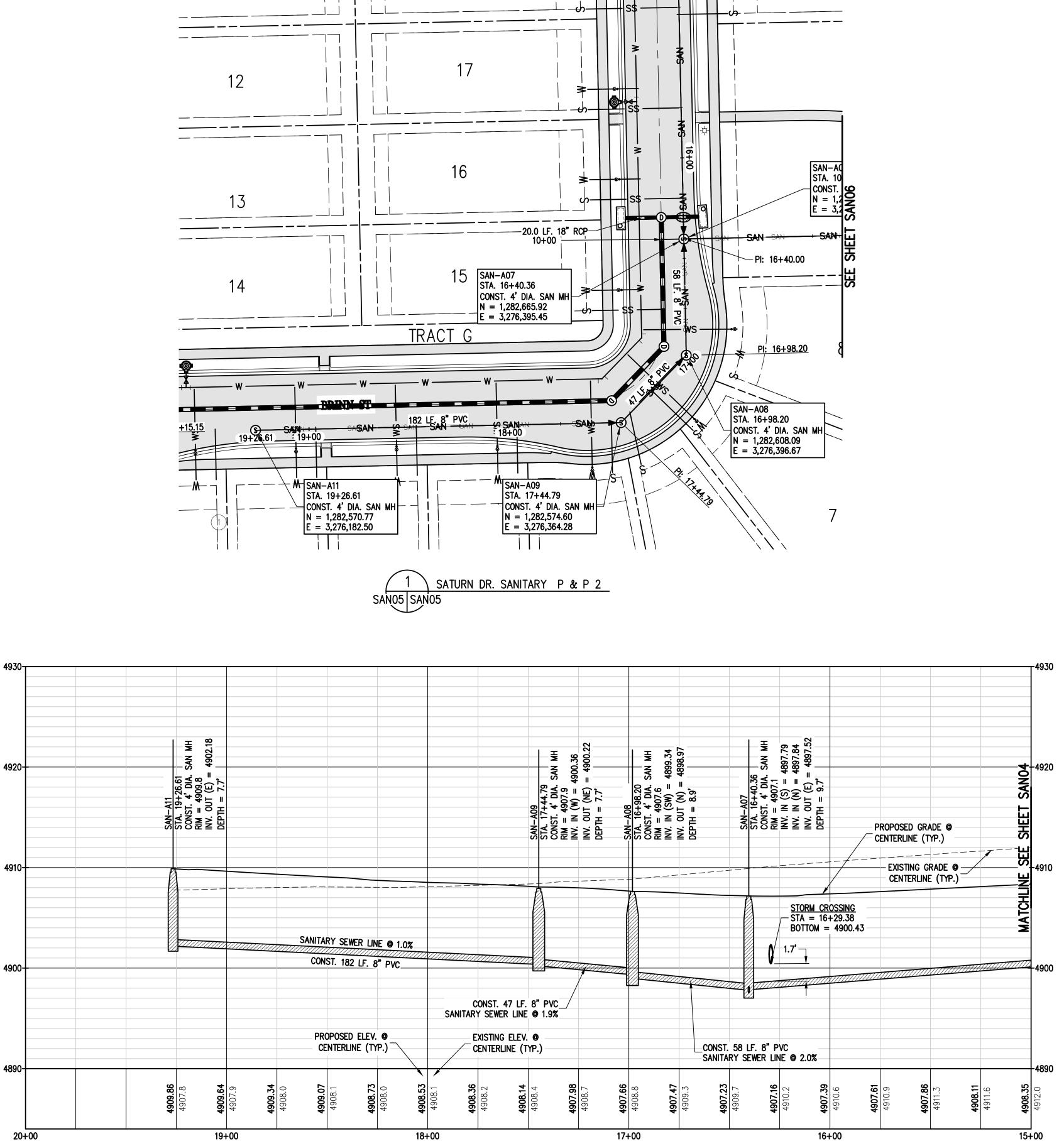
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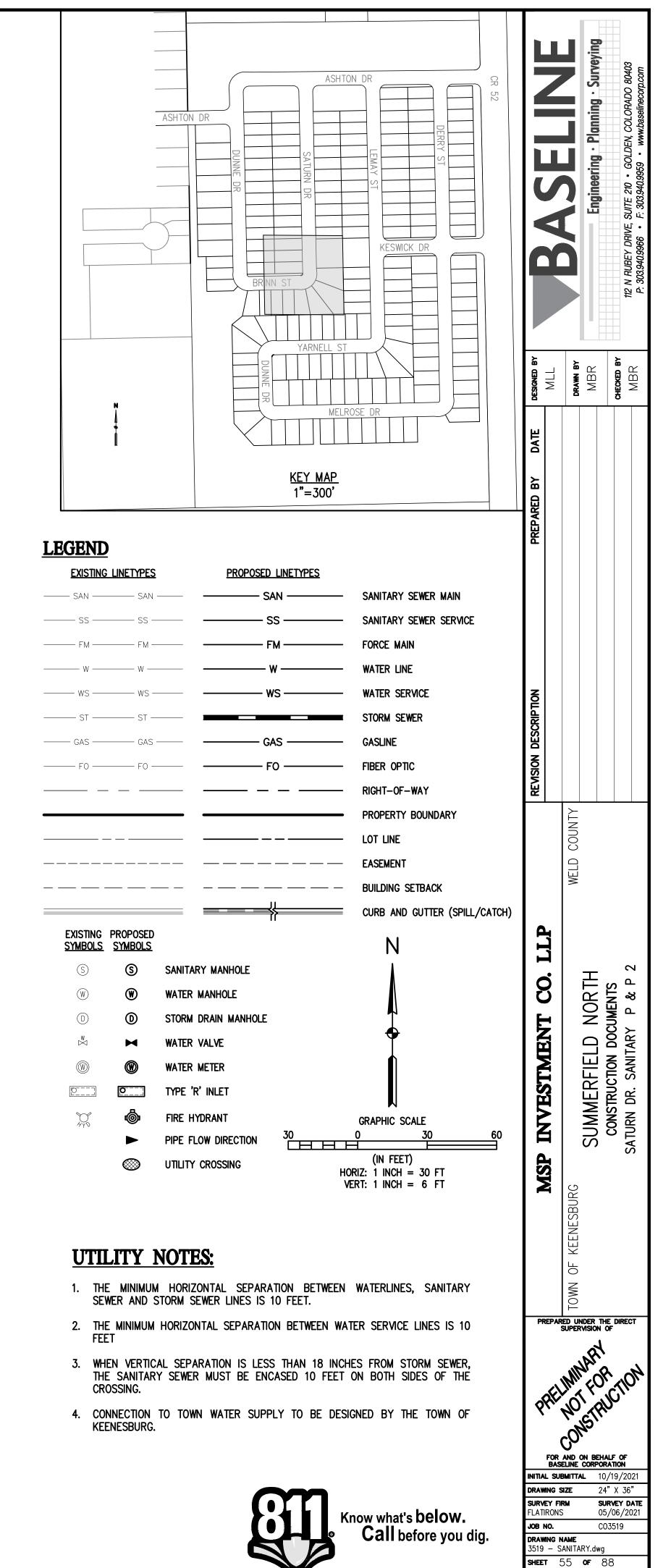




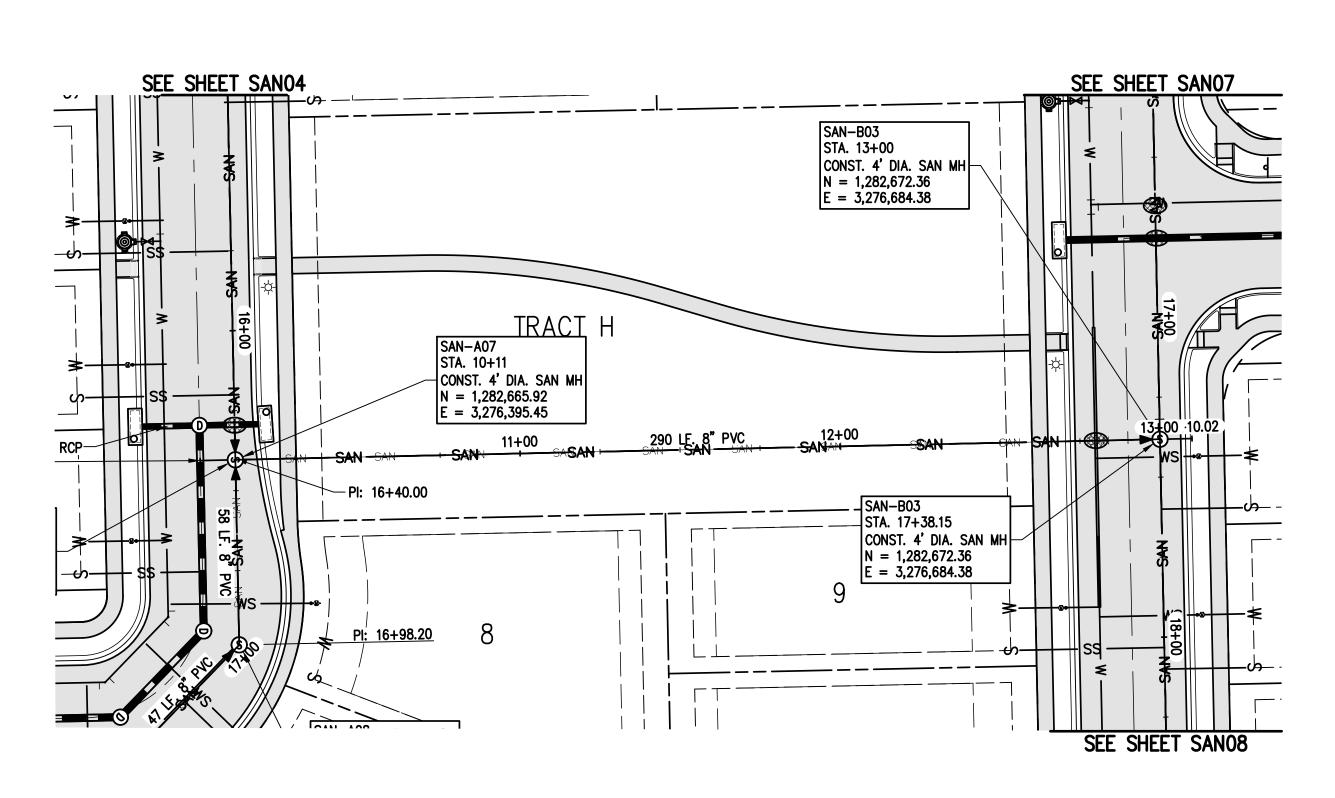


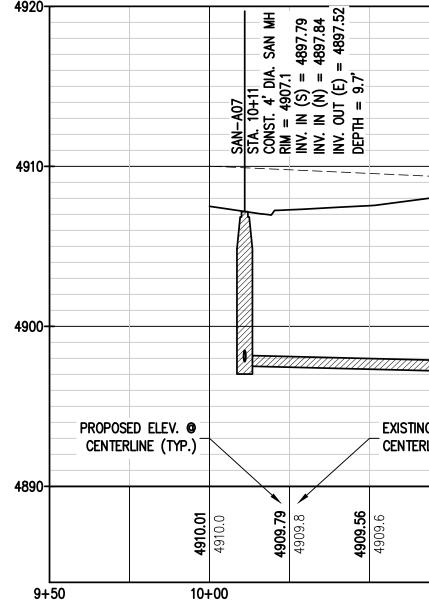






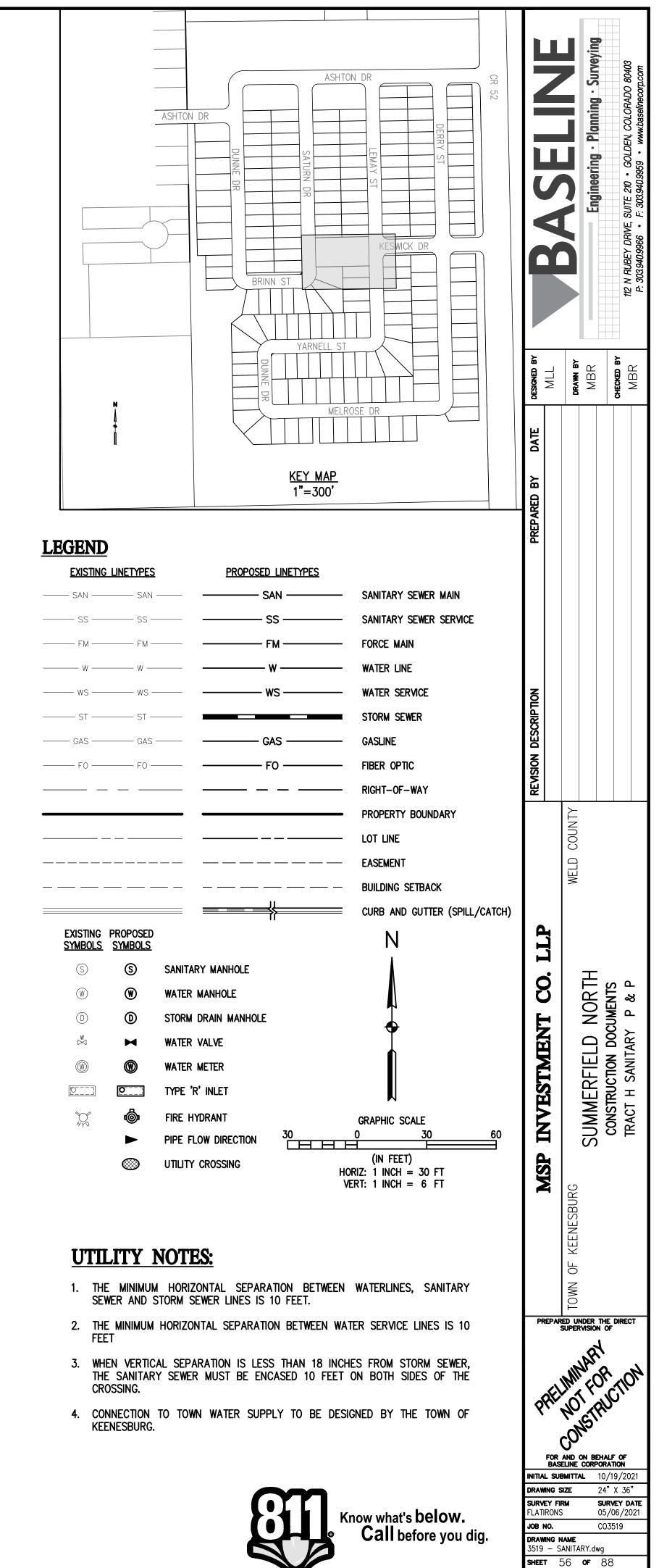


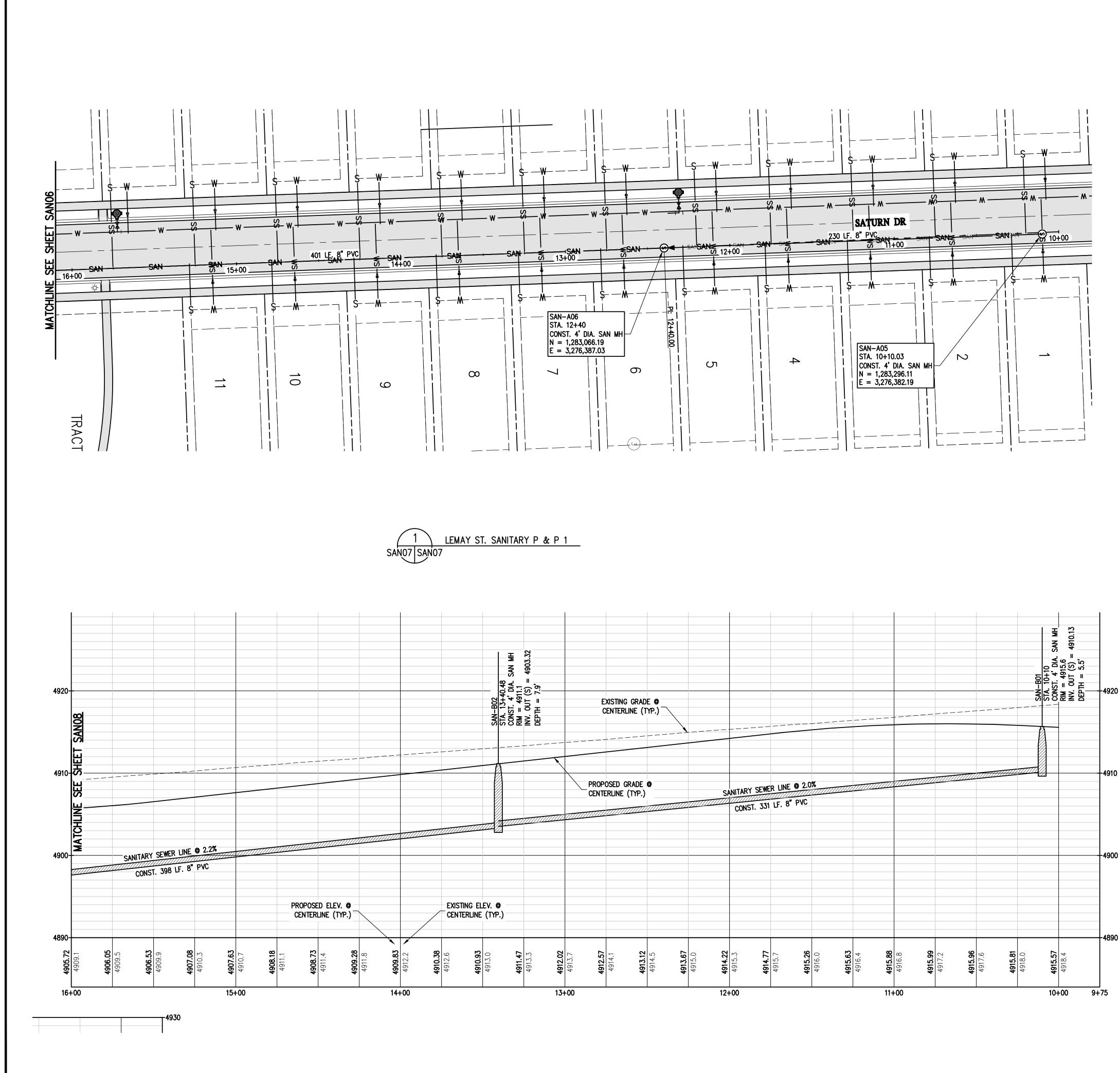


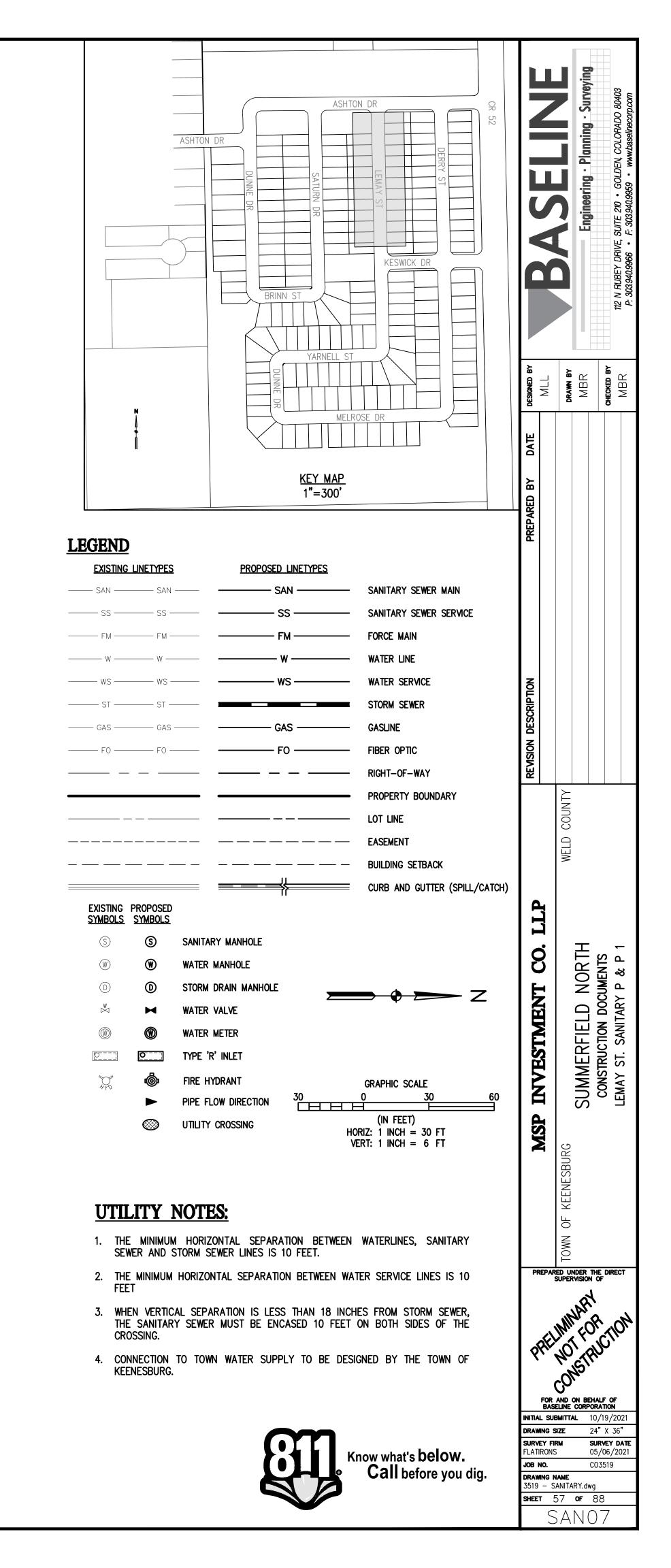


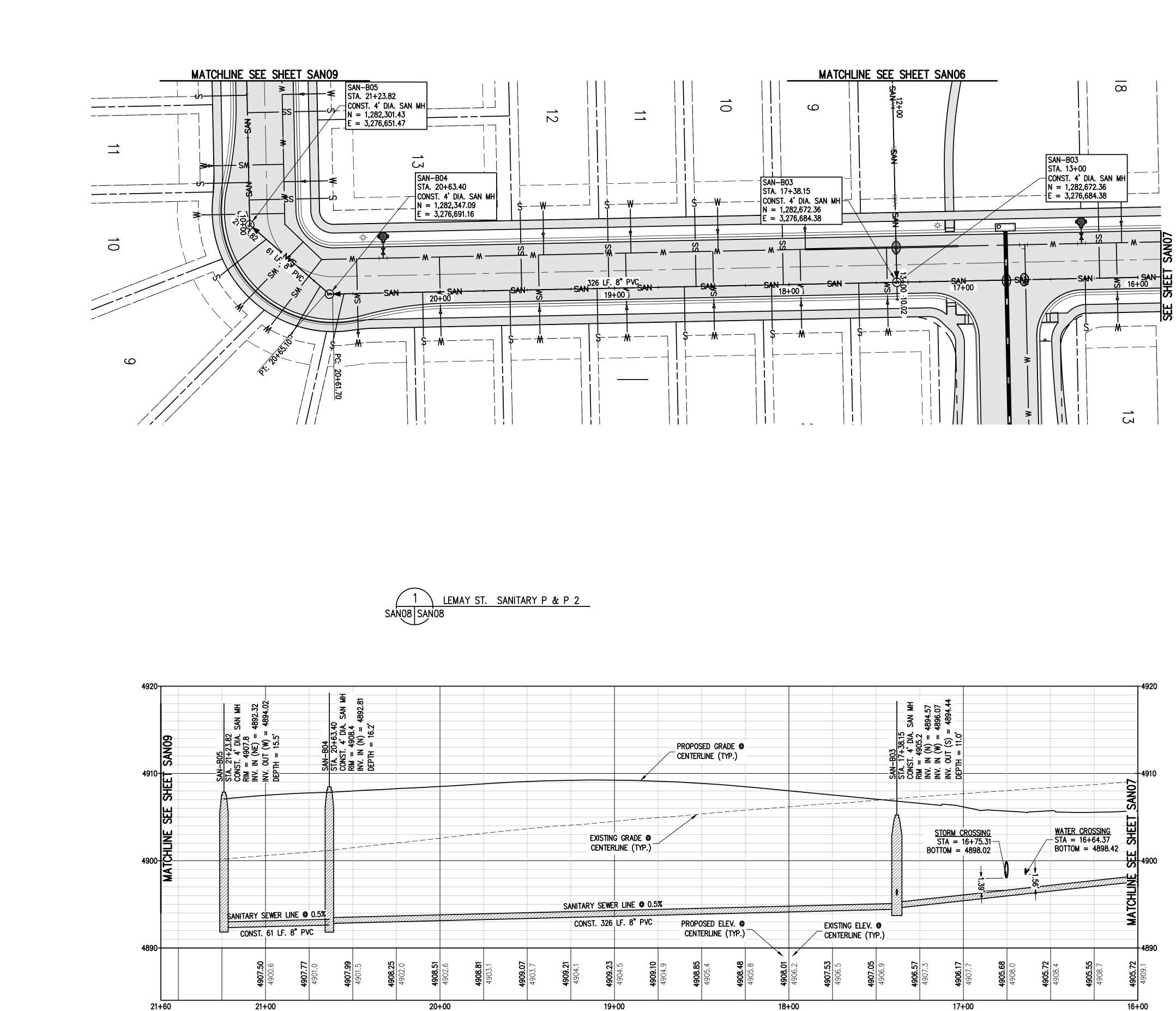
	PROPOSED	GRADE @ INE (TYP.)							SAN-B03	STA. 13+00 Const. 4' Dia. San MH Rim = 4905.2 Inv. In (N) = 4894.57 Inv. In (W) = 4896.07	, <u>, ,</u> ,
		ING GRADE @ ERLINE (TYP.)	CONST. 2	290 LF. 8" PV	1//////////////////////////////////////			CROSSING ~~ 12+80.00 ~~ = 4900.86			-4910
ING EI ERLINE	4909.3 E (TYP.)	4909.1 <b>4908.87</b>	<b>SANITARY S</b> 6.008.61	<b>EWER LINE @</b> 908.33				4907.7 <b>4907.46</b>	4907.5 4907.12	4907.1	-4890
4		+00 4 <b>6</b>	4 4	4 8		+00 4 <b>5</b>	4 8	4 4			] +25

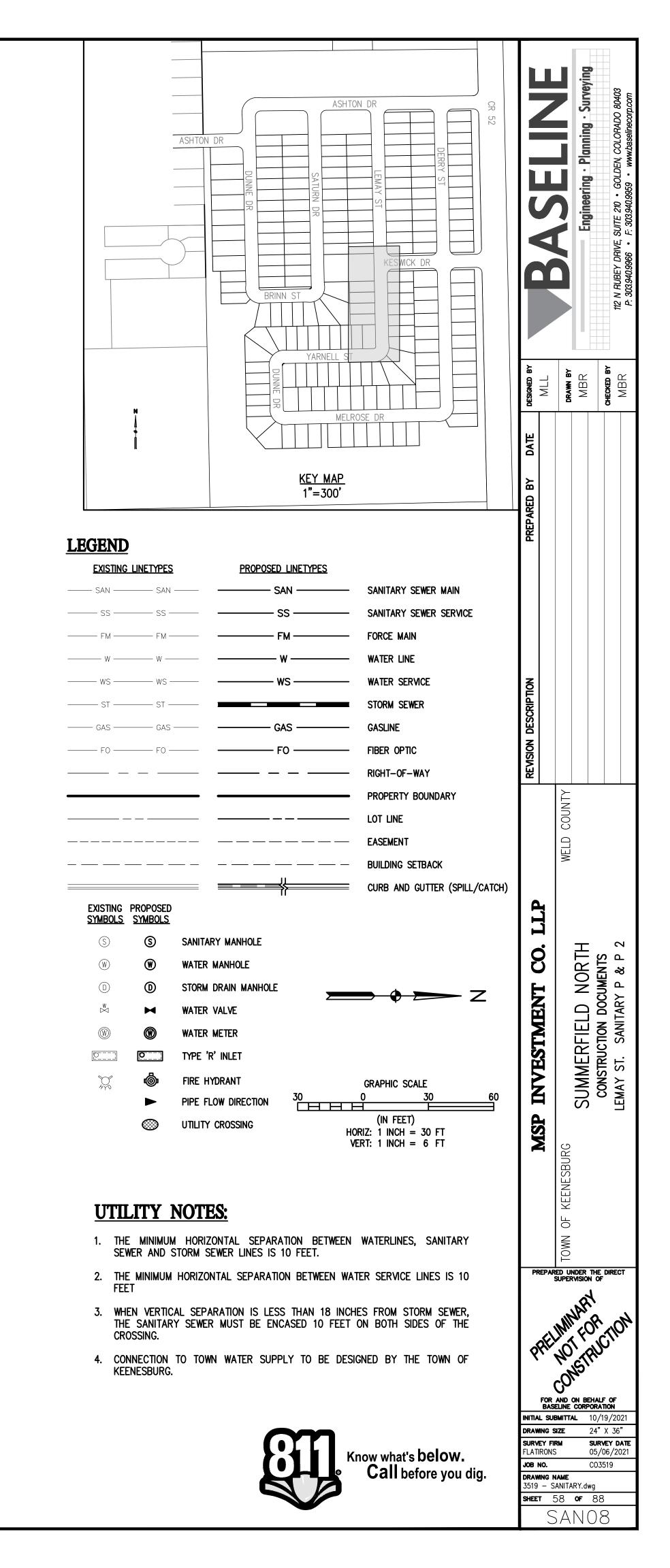


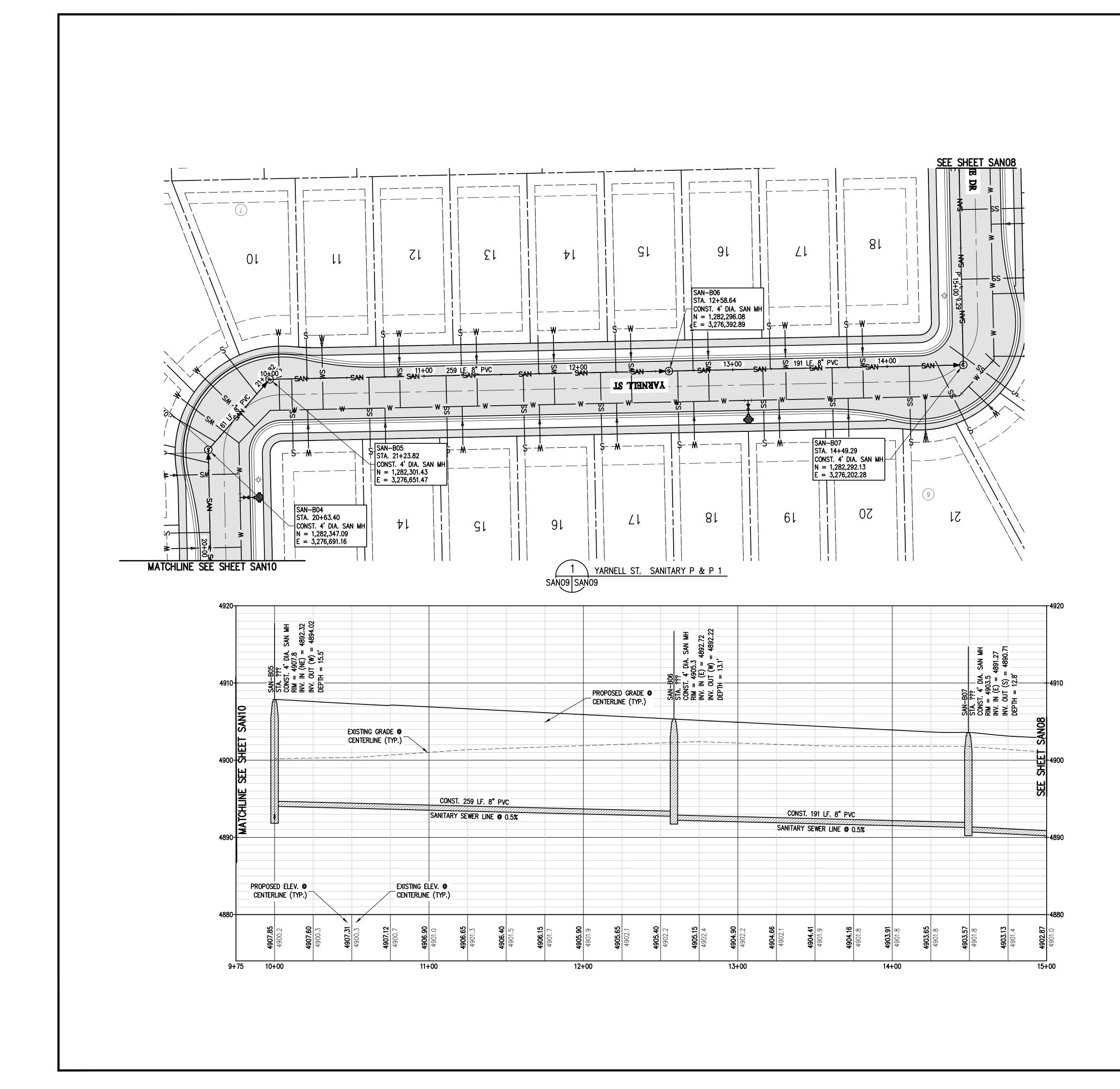


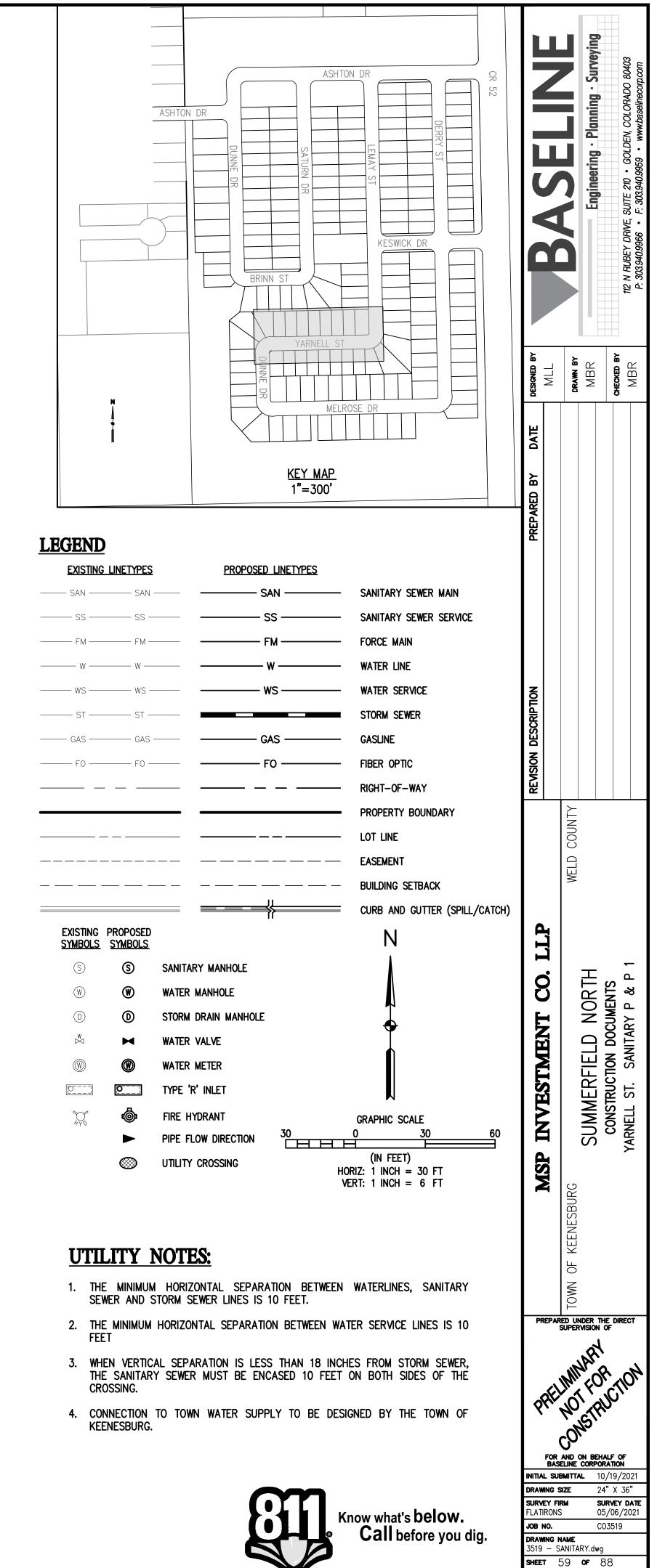


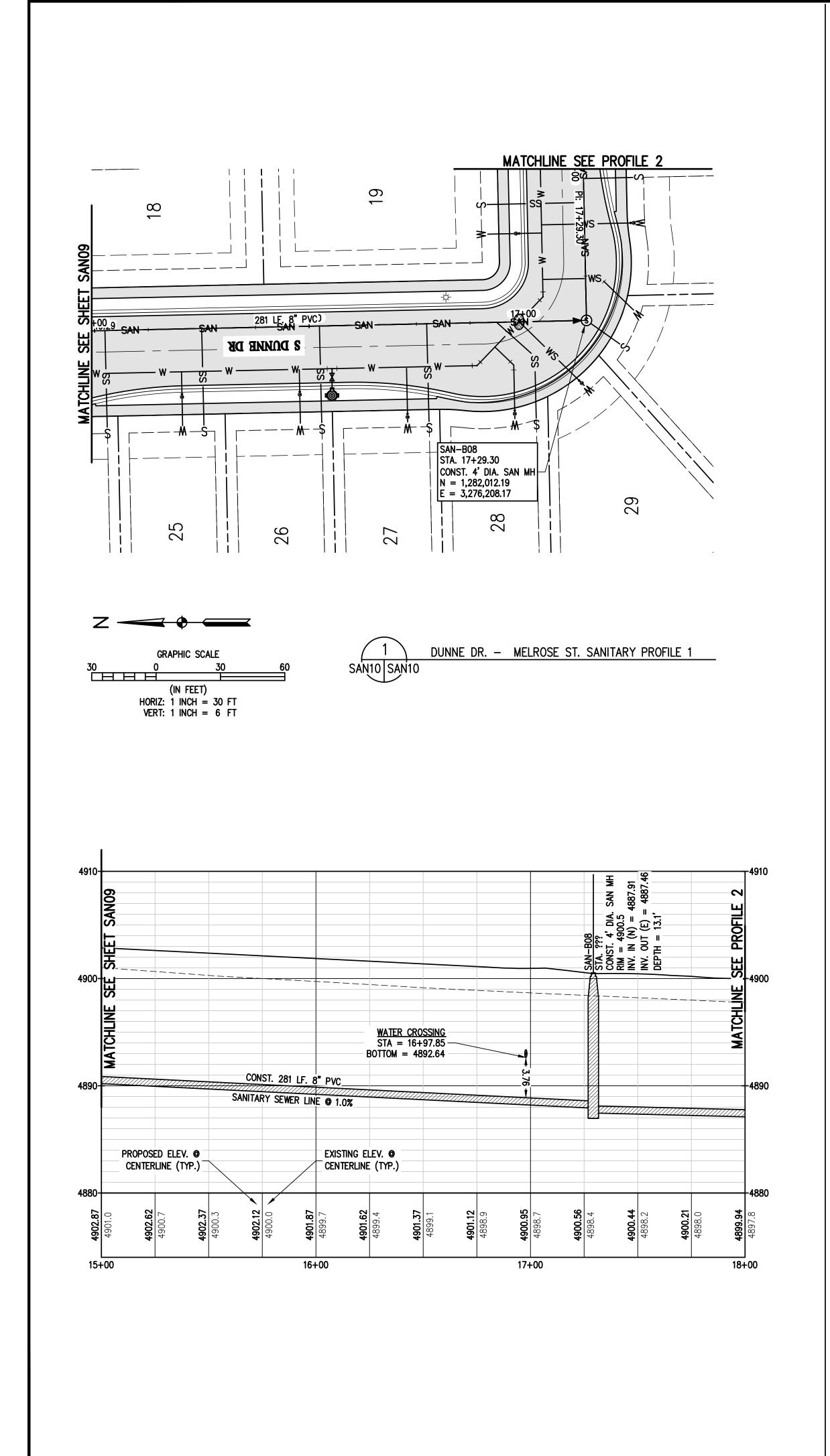


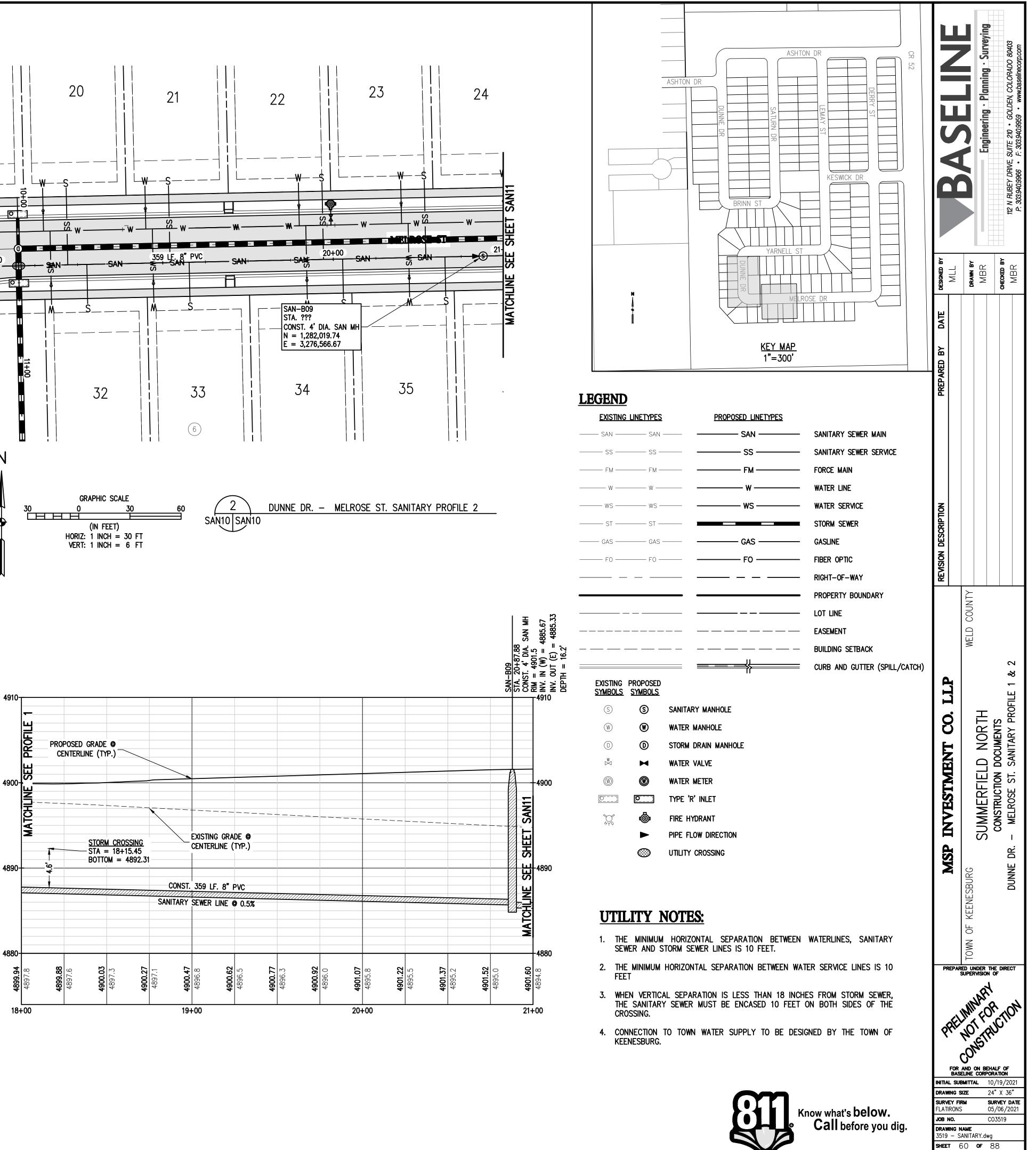


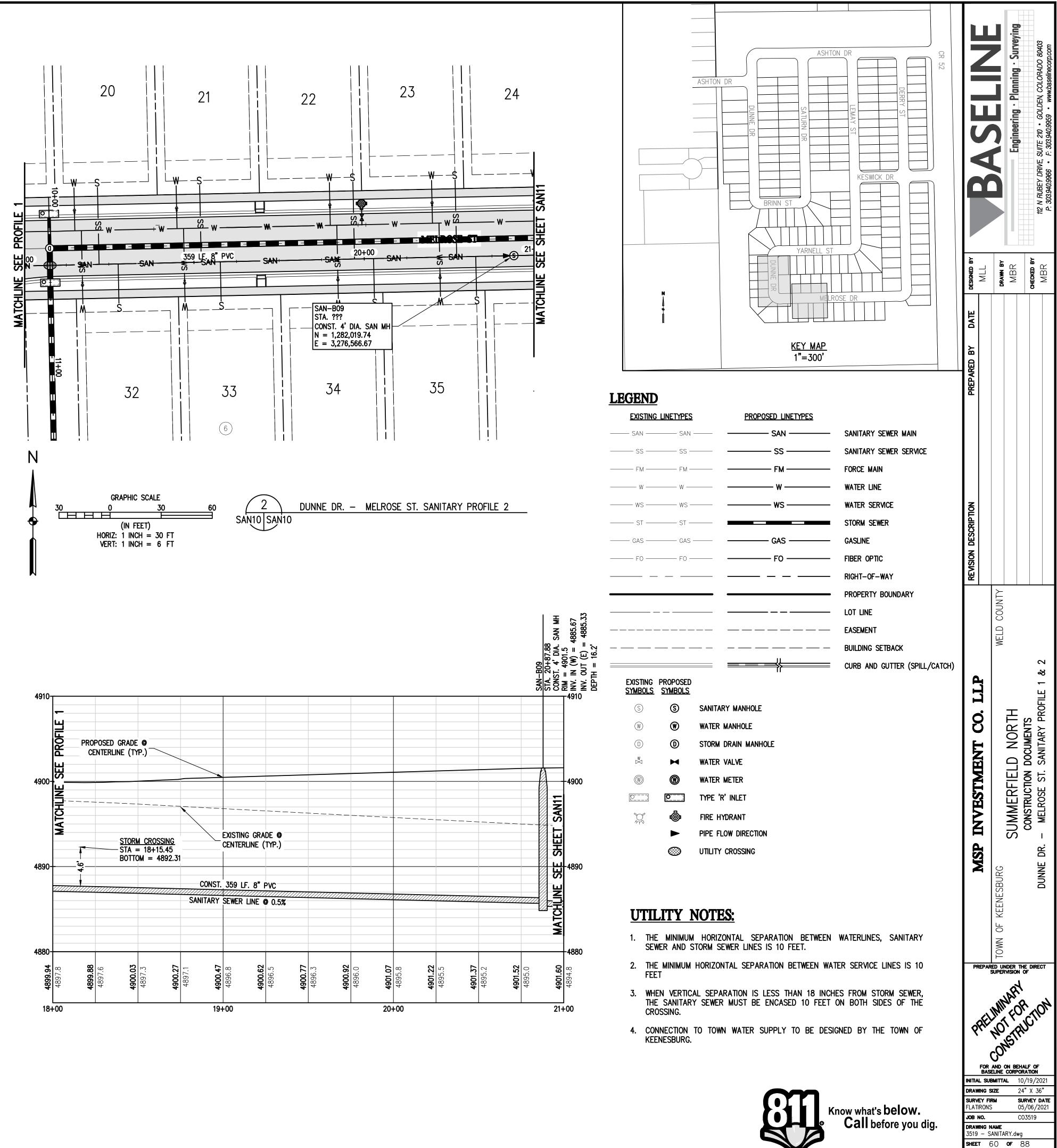


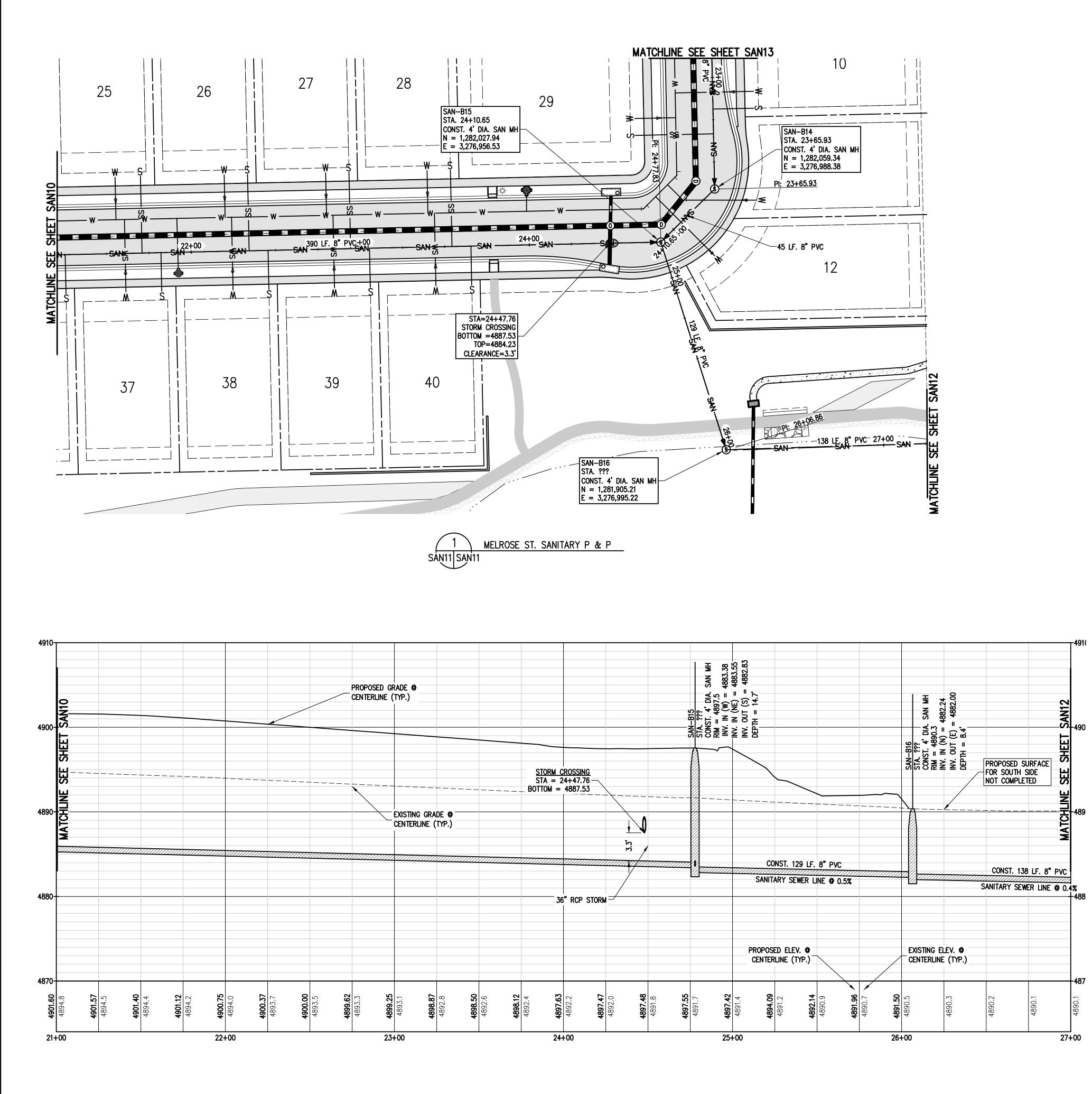


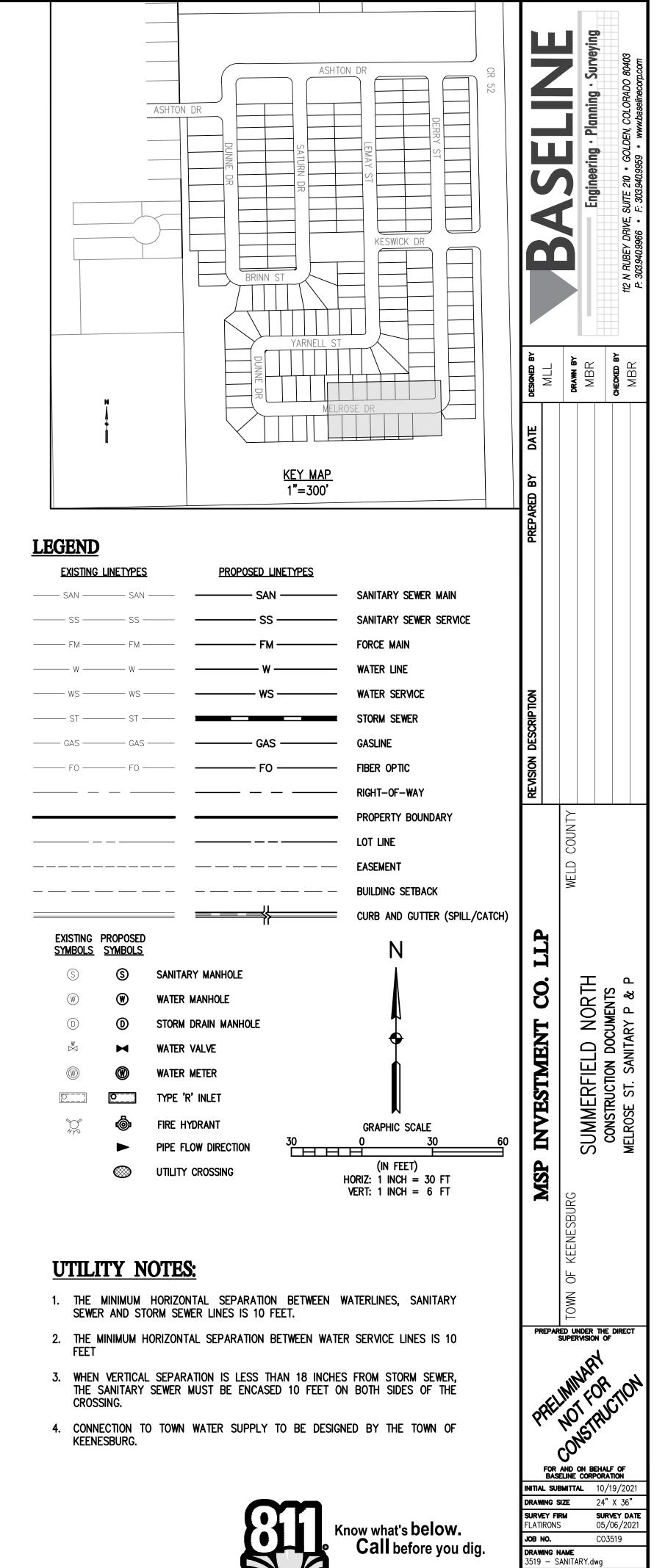




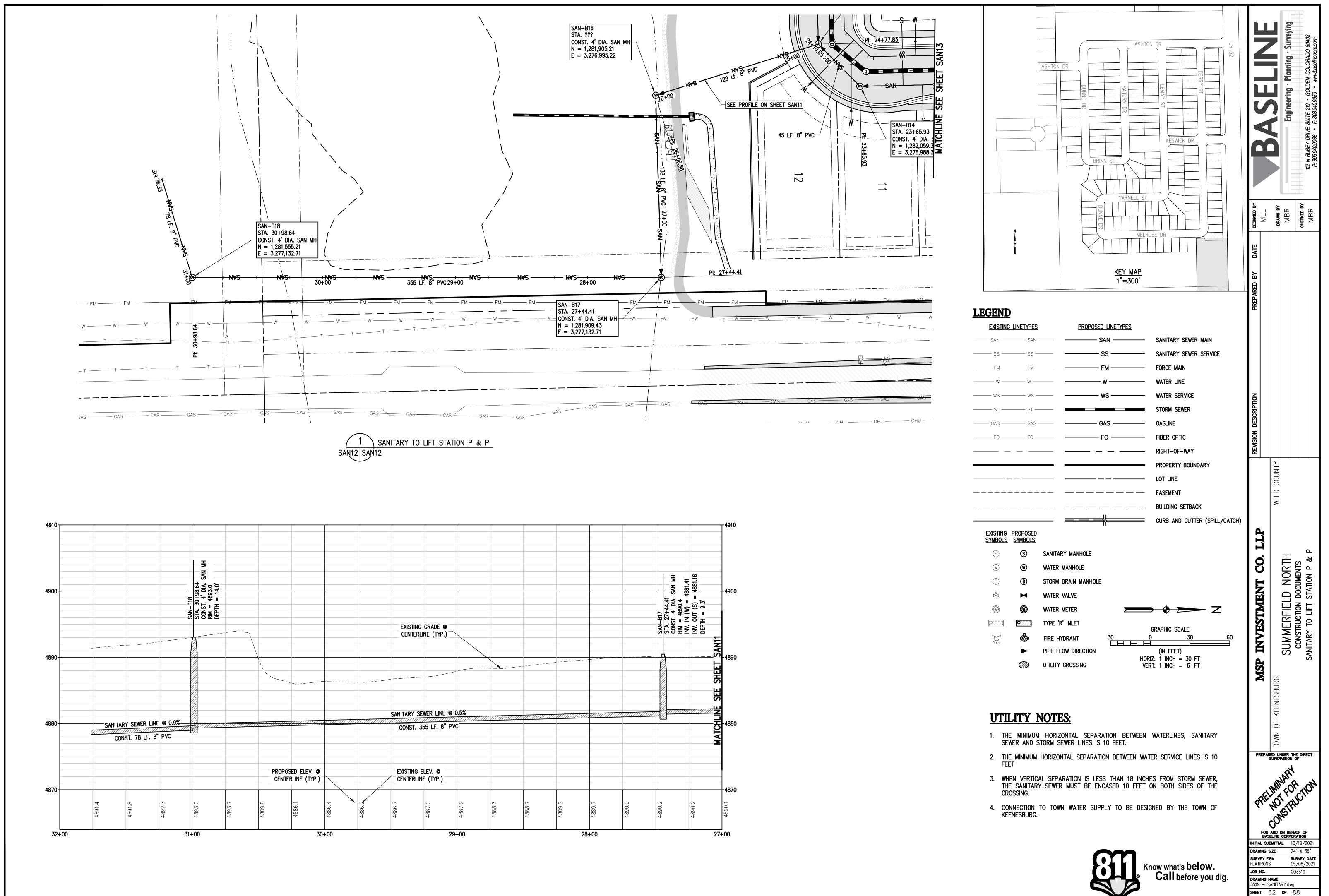


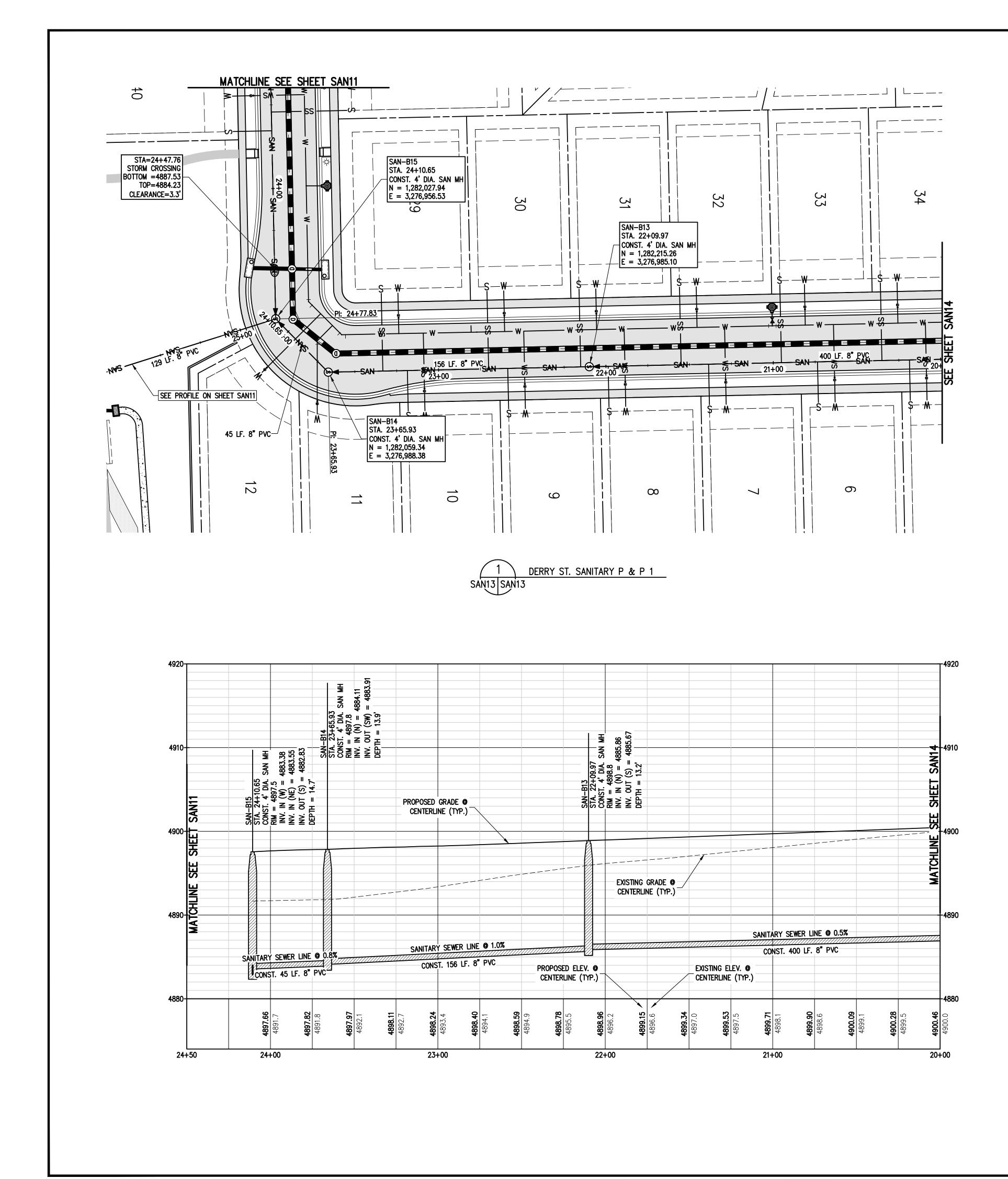


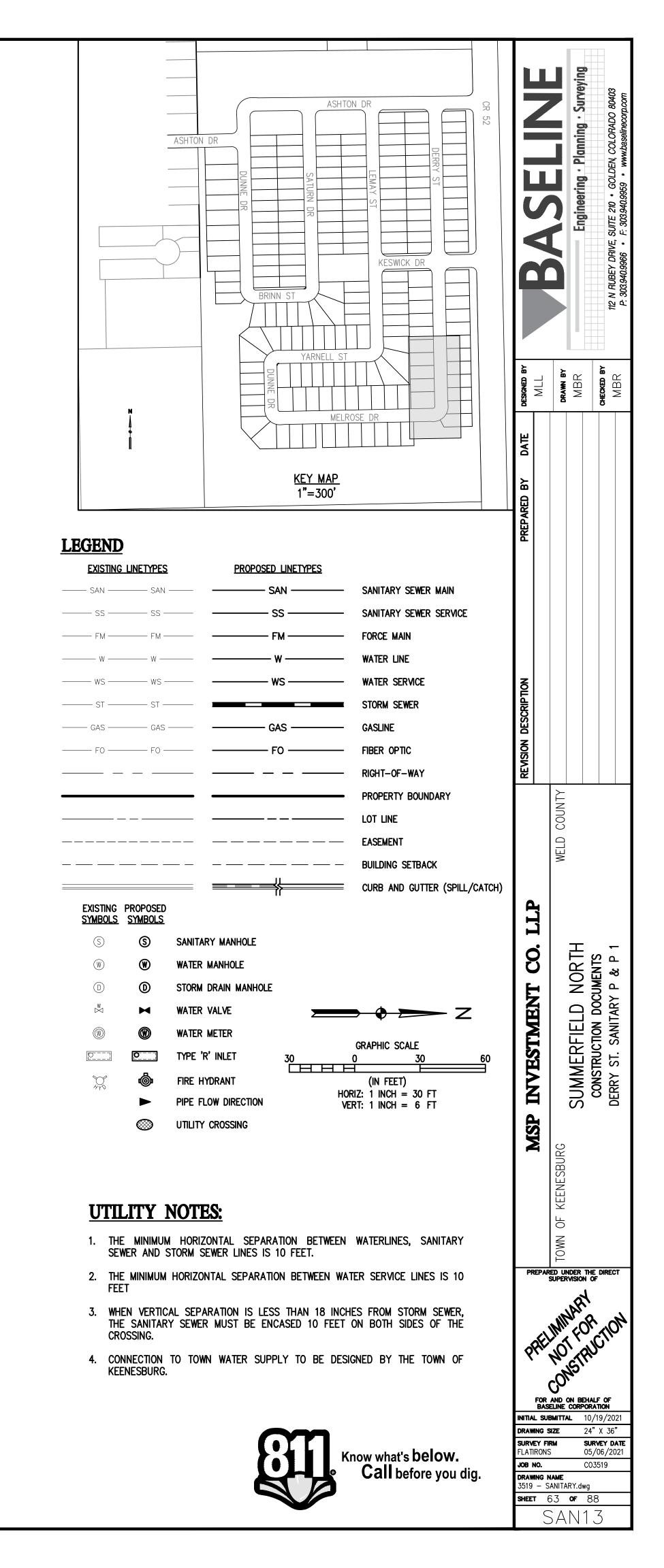


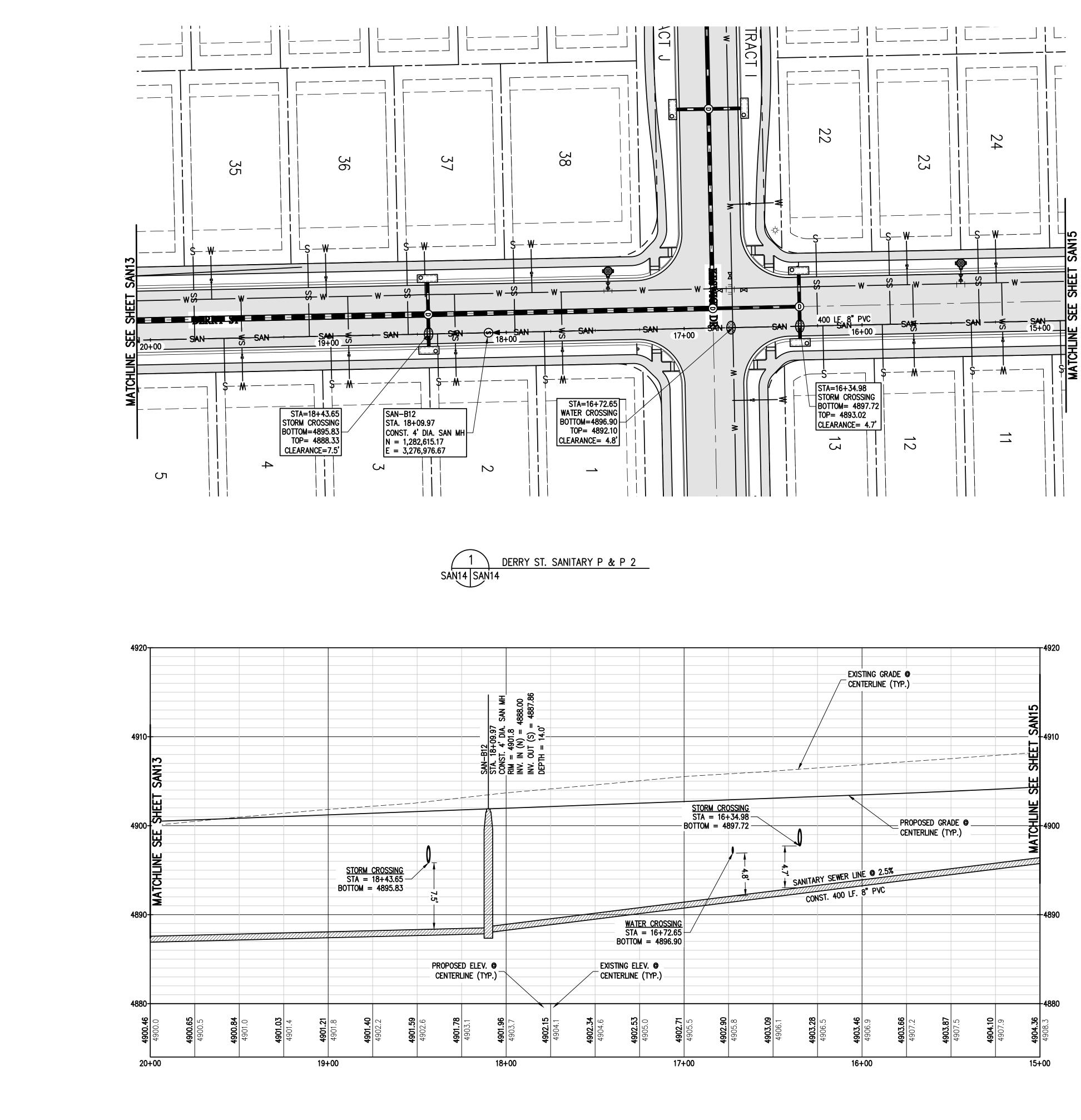


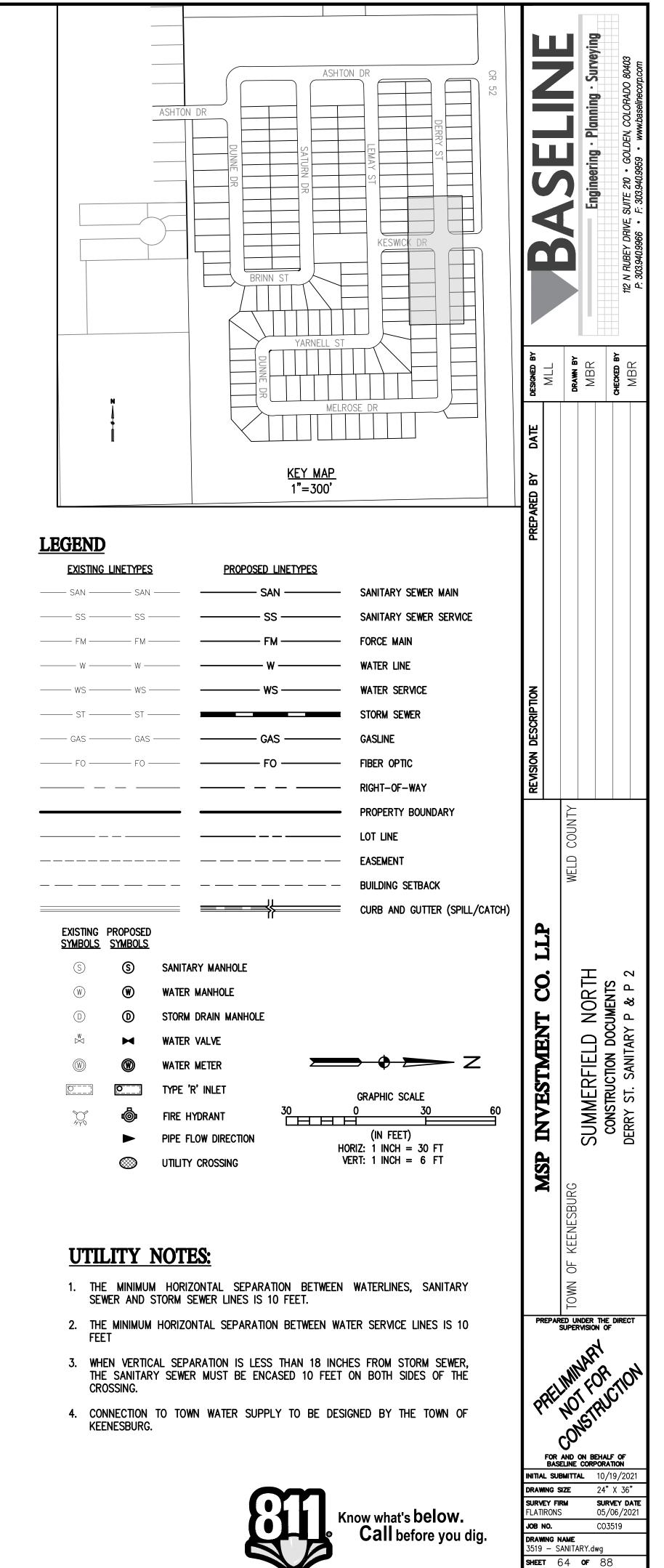
**Sheet** 61 **of** 88

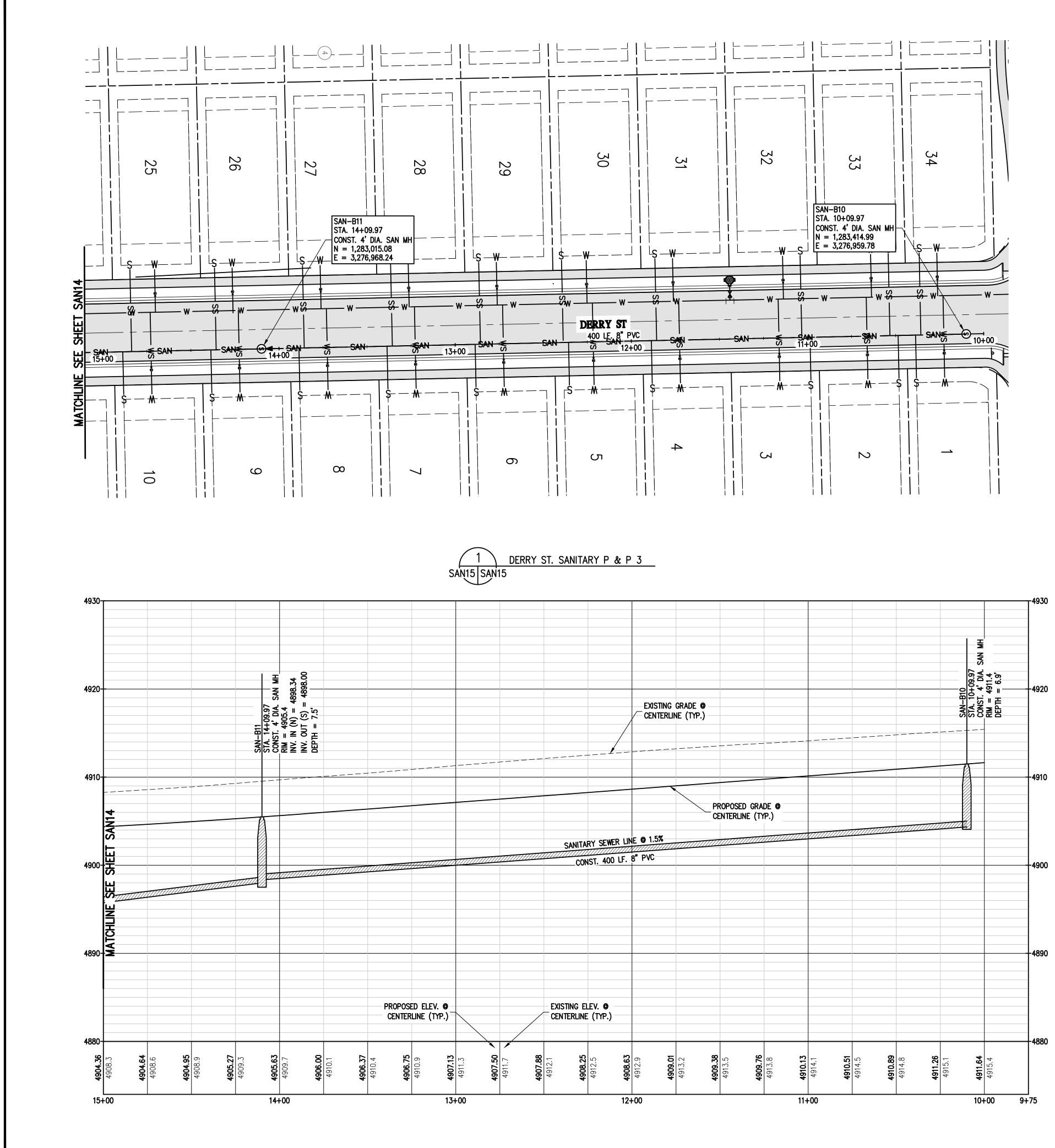


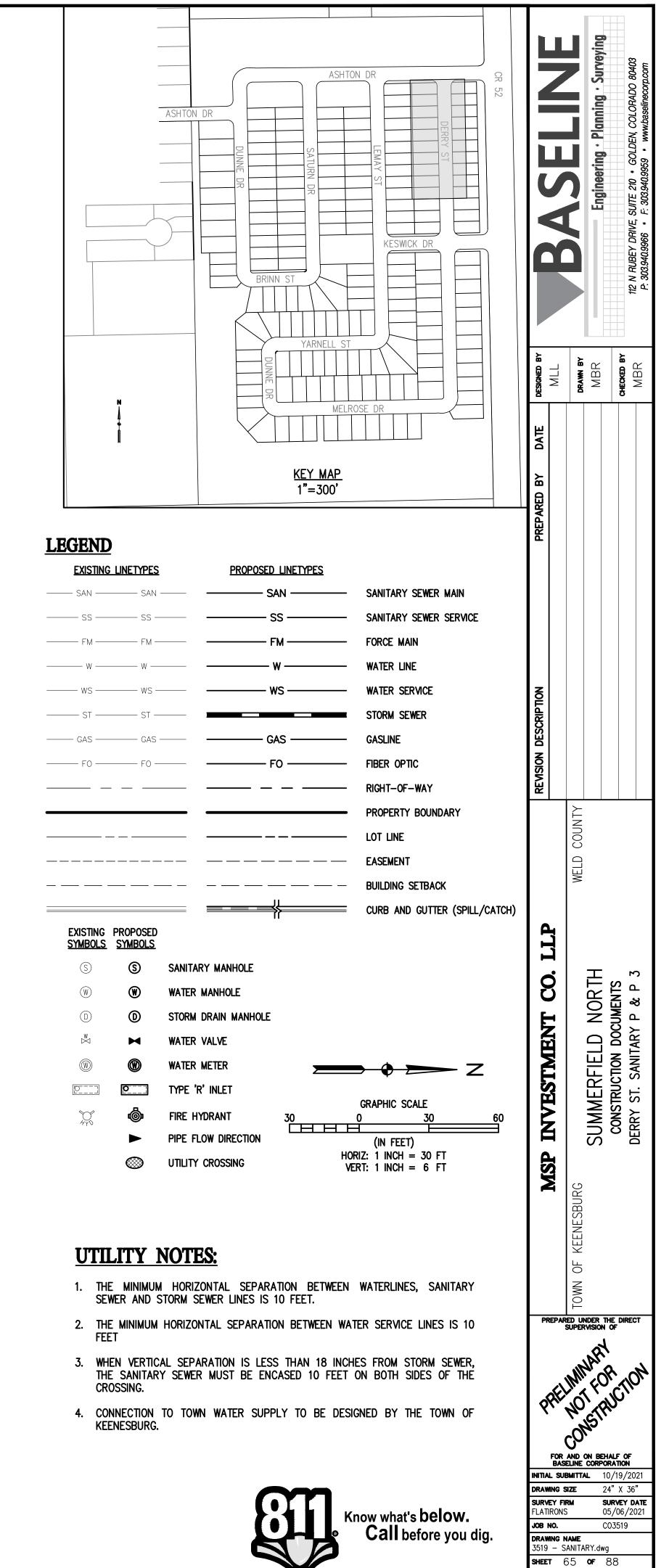


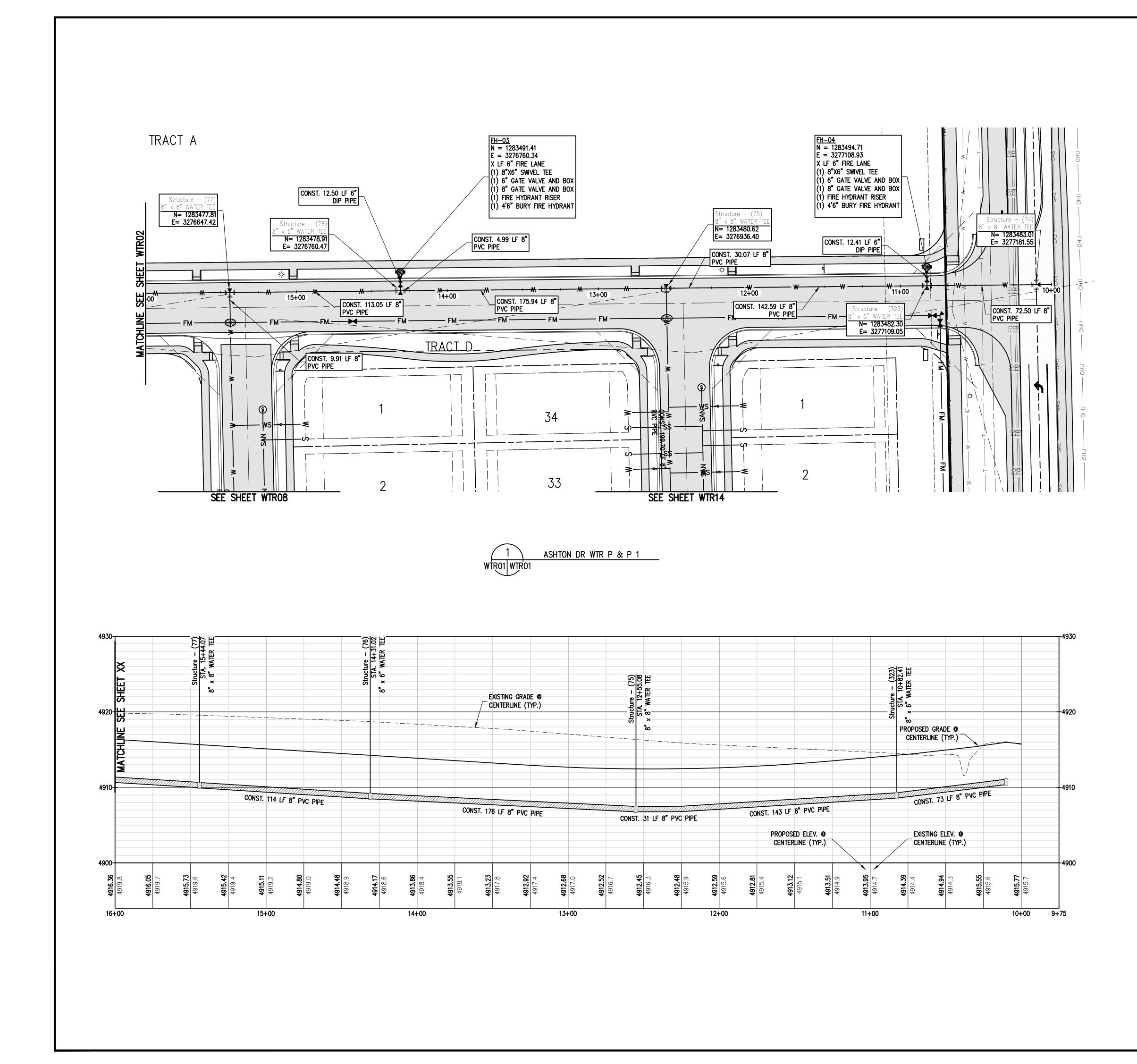


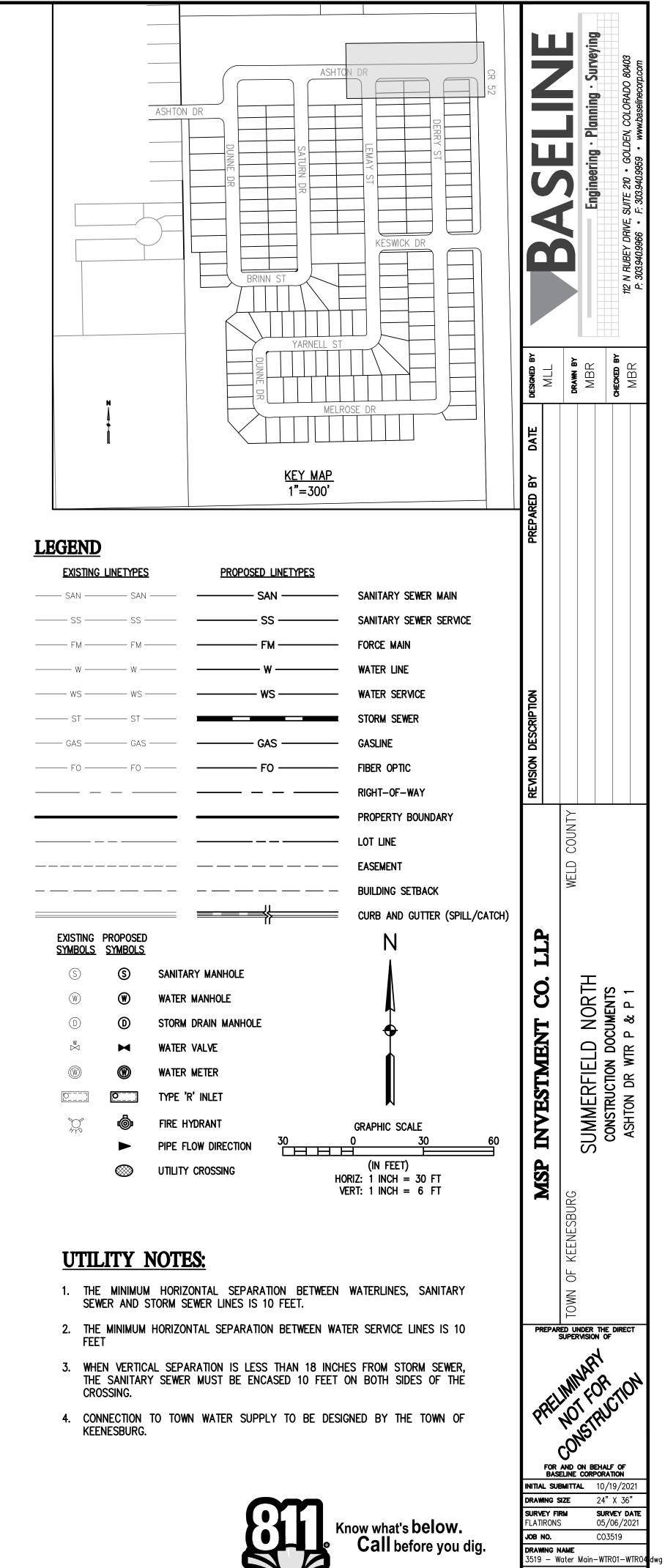




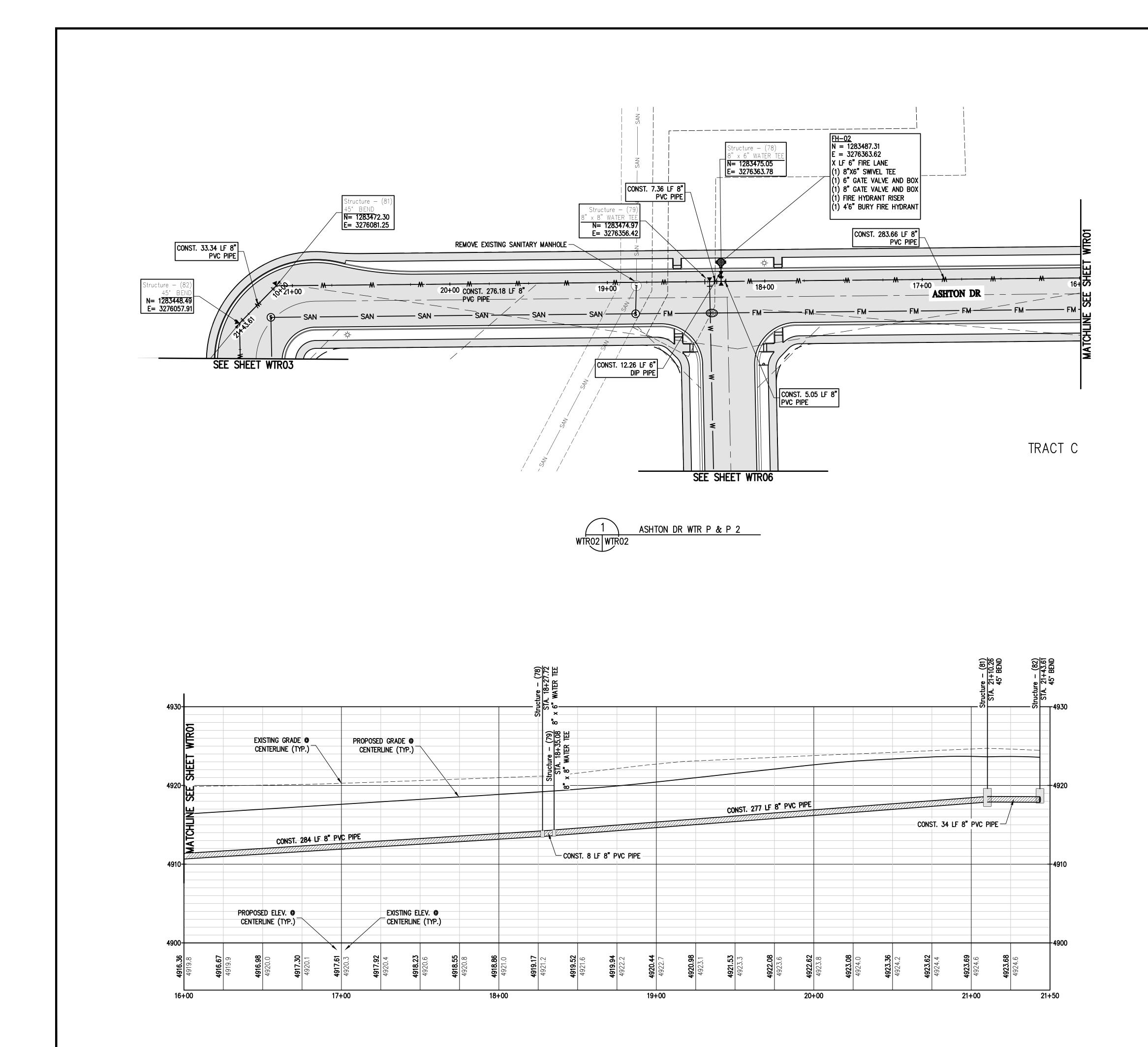


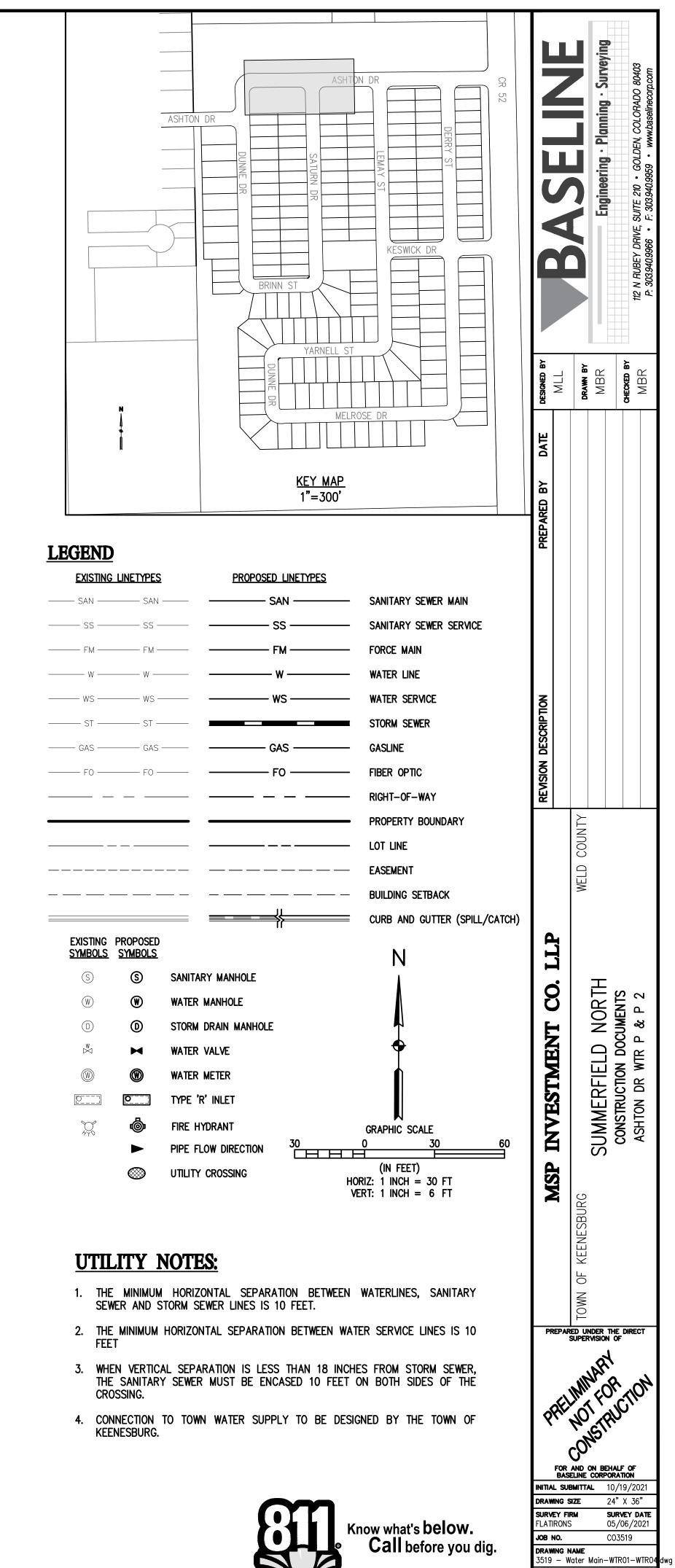




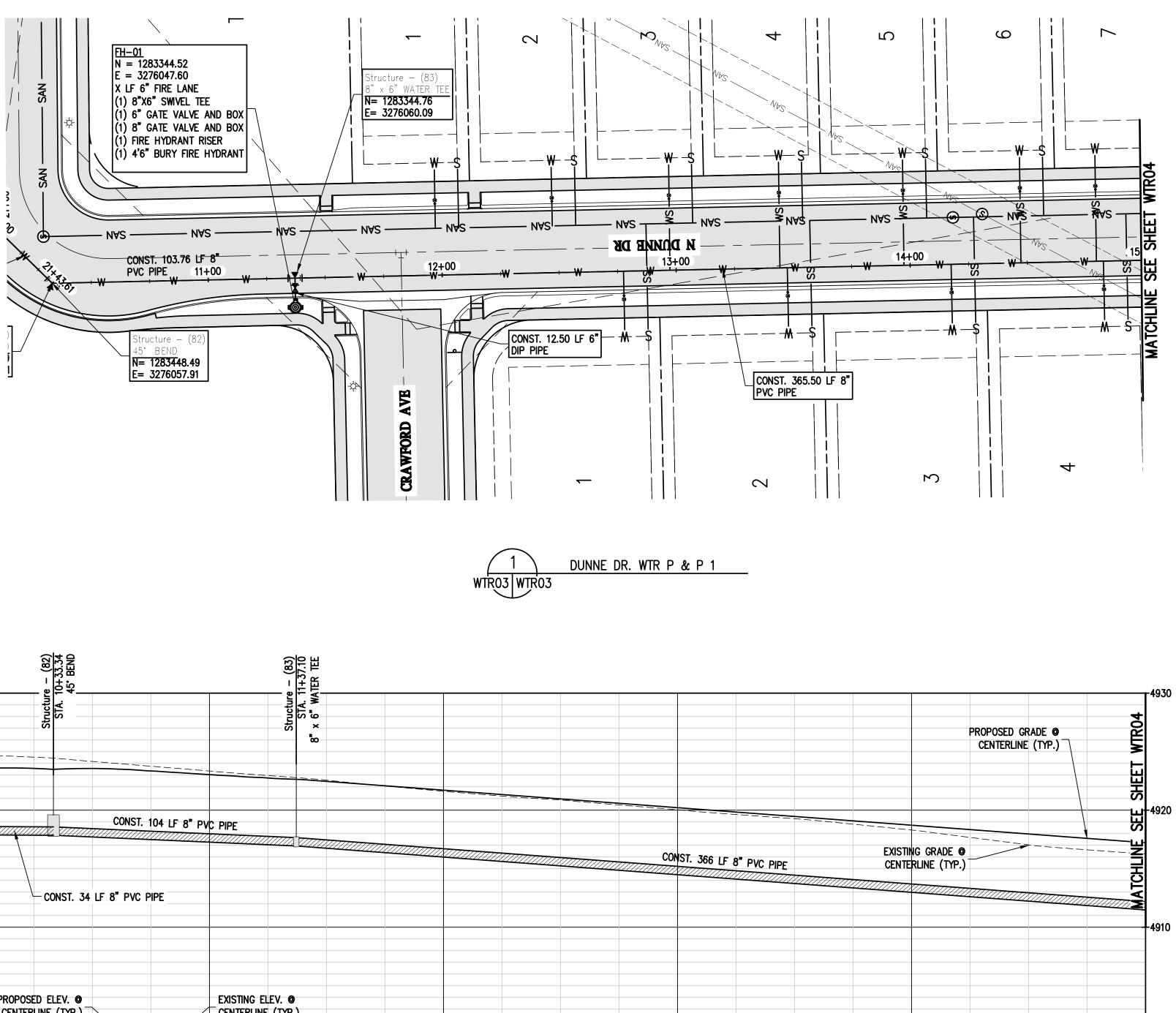


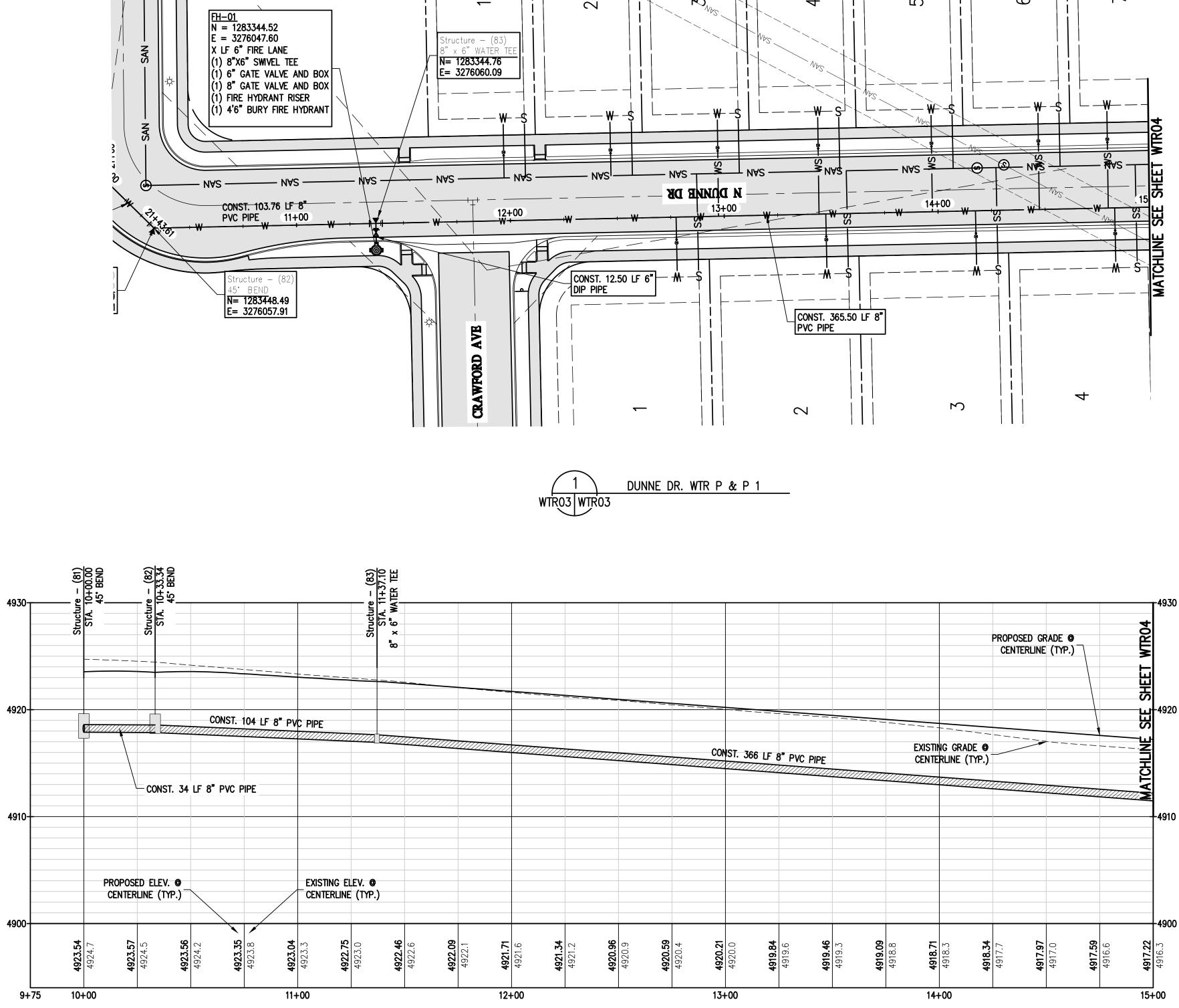
SHEET 66 OF 88

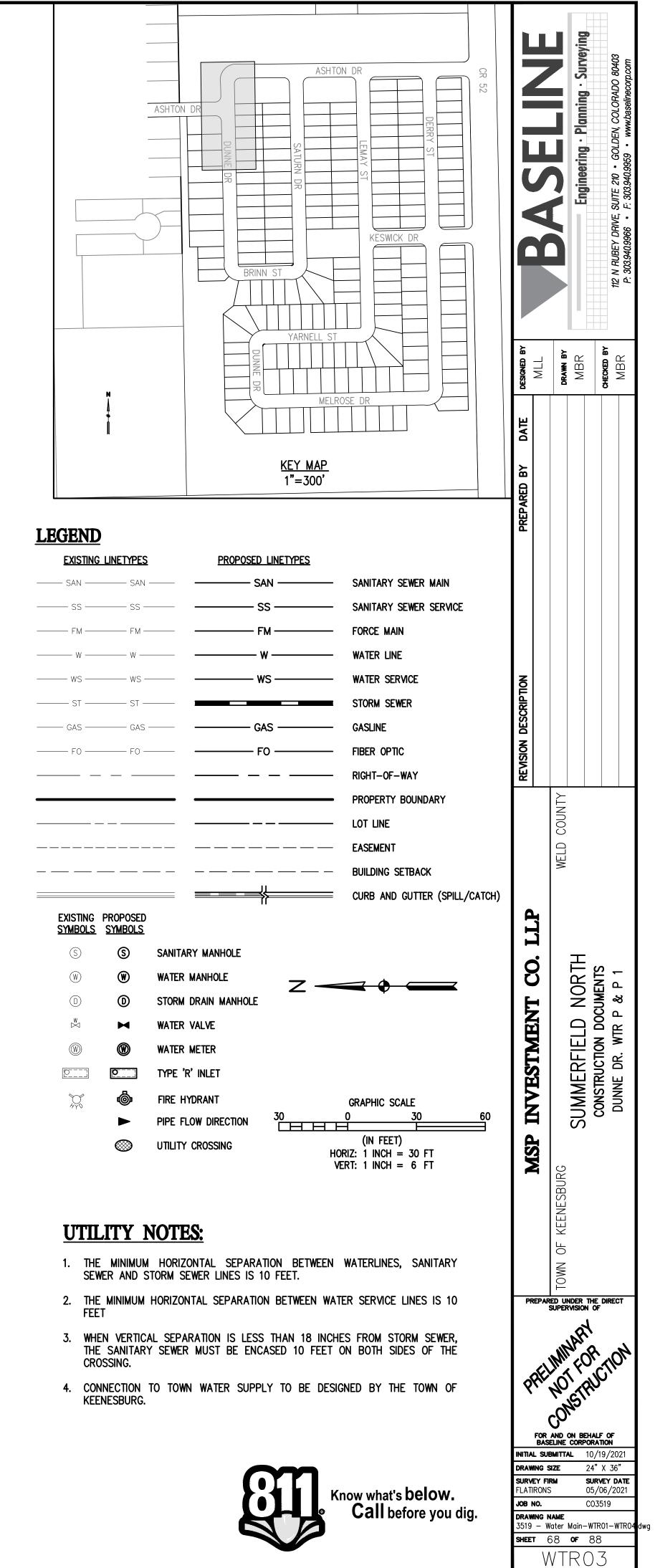


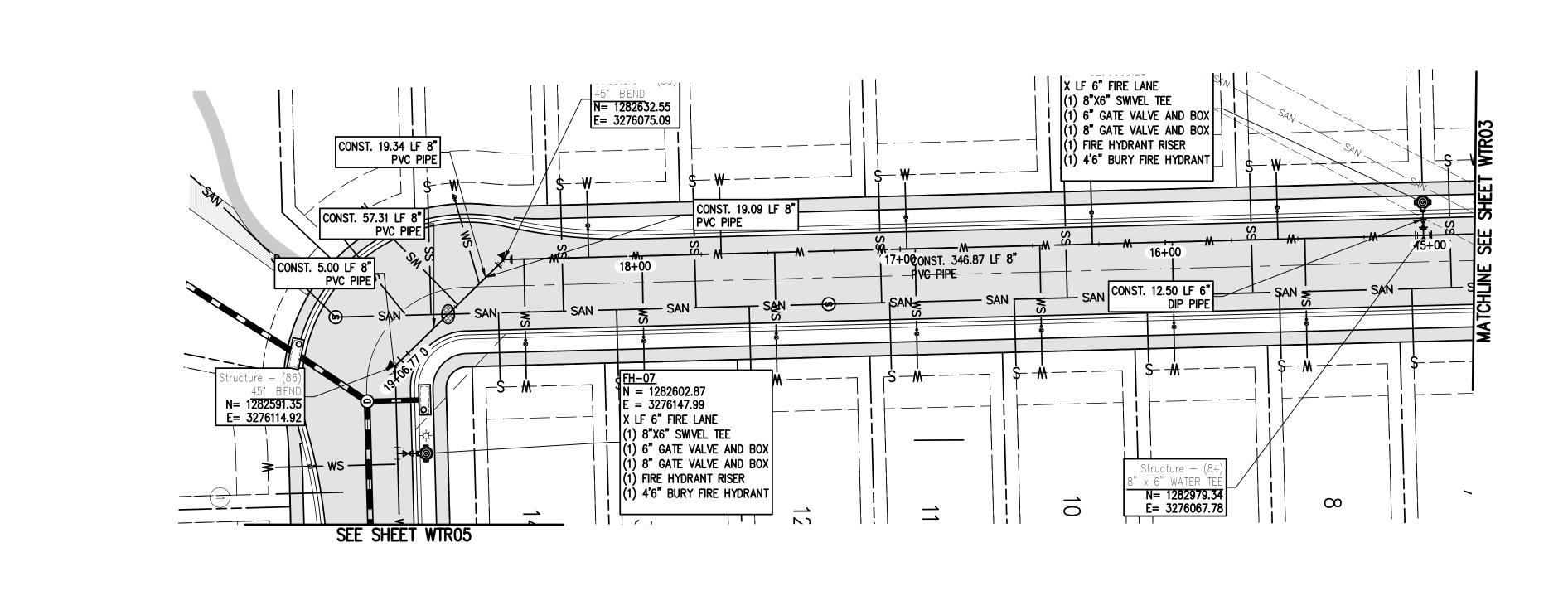


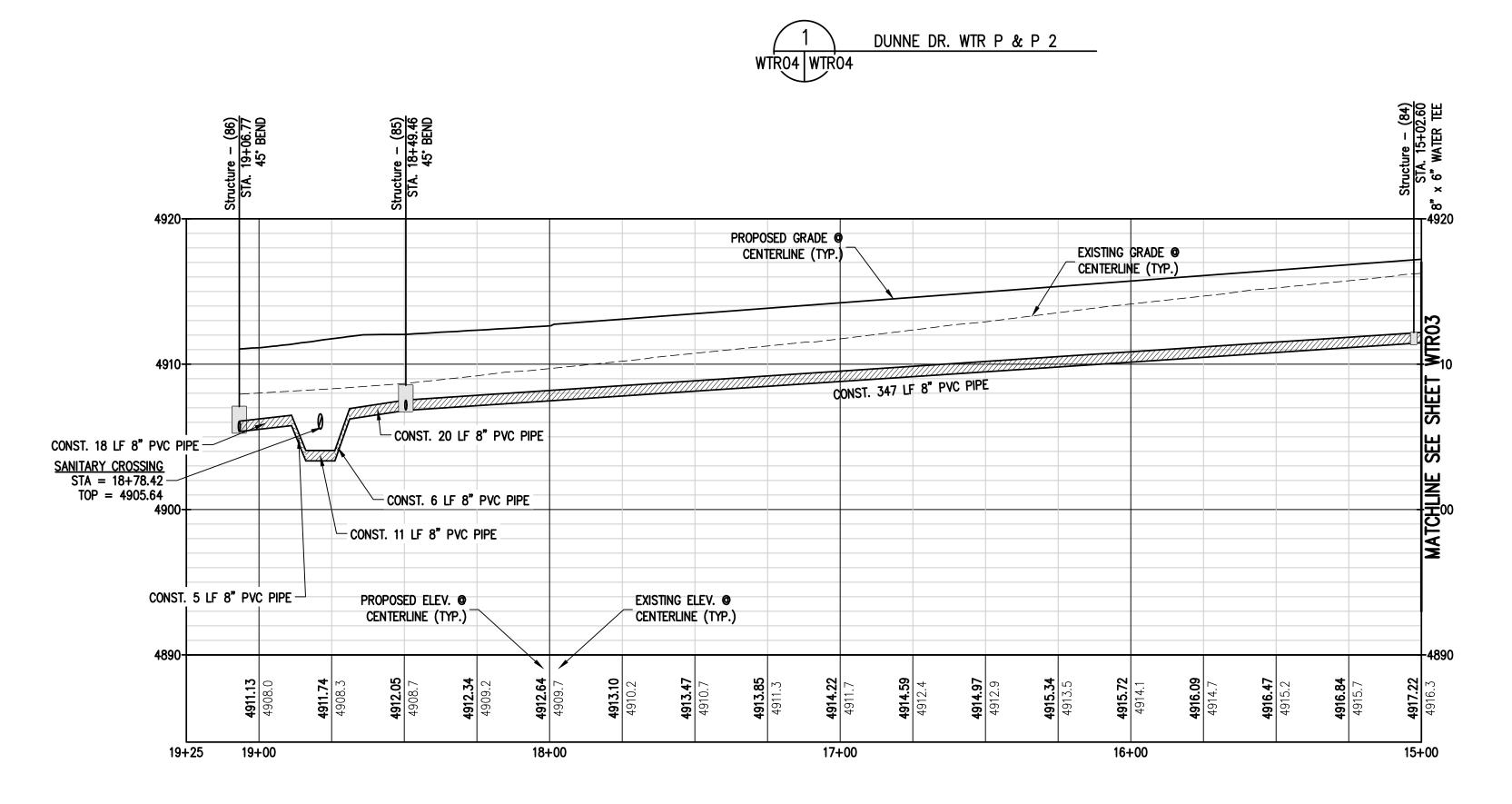
SHEET 67 of 88

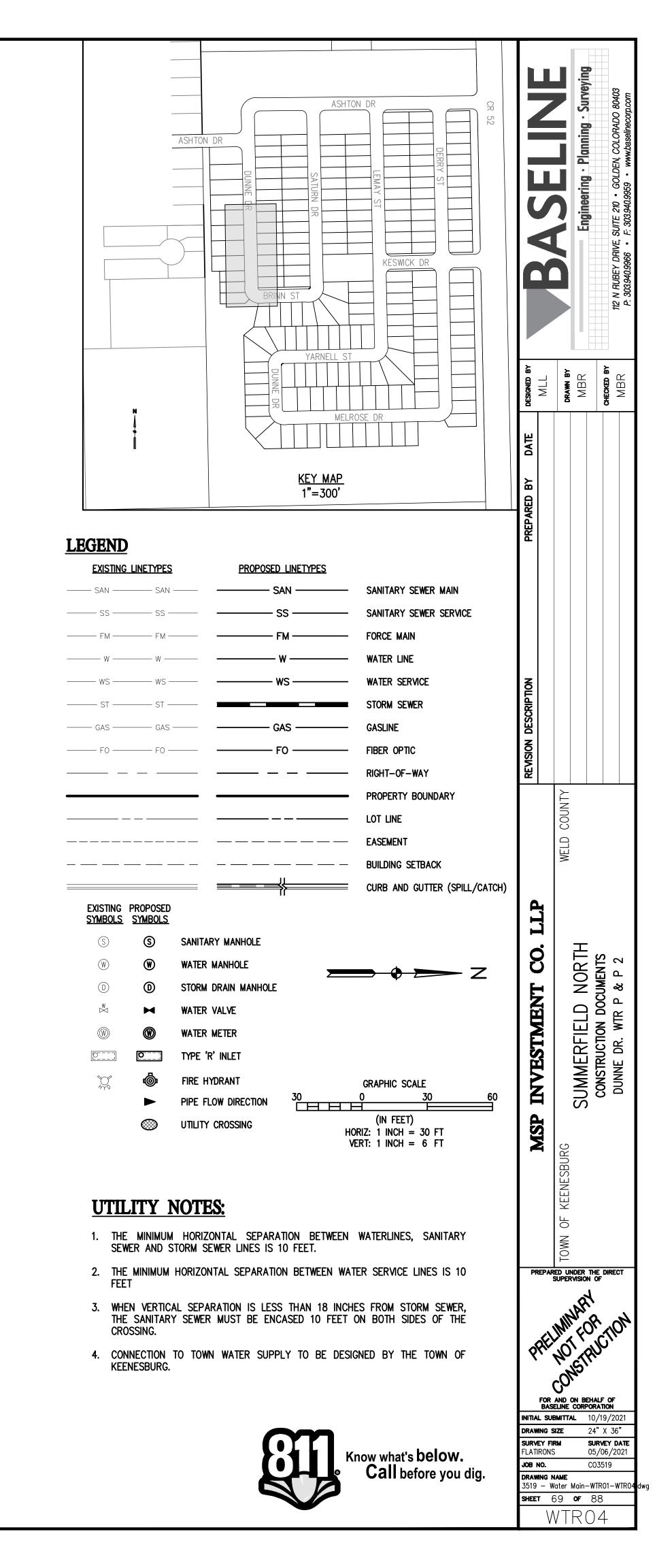


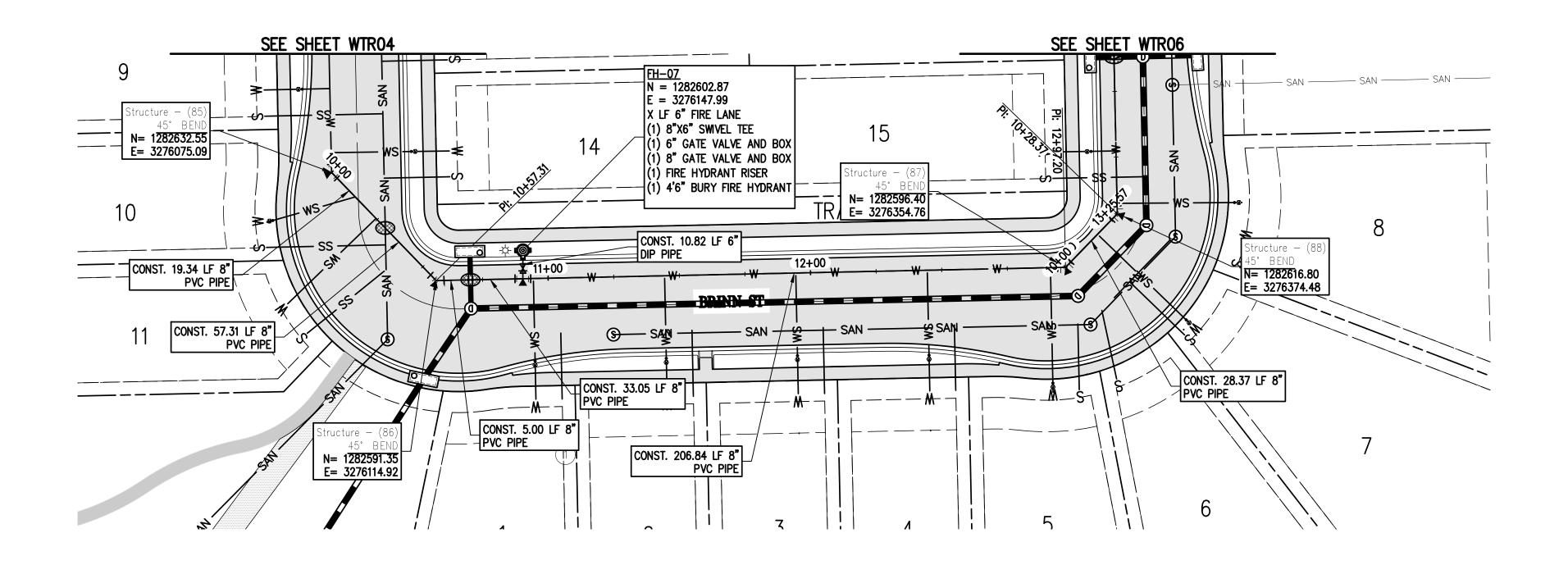


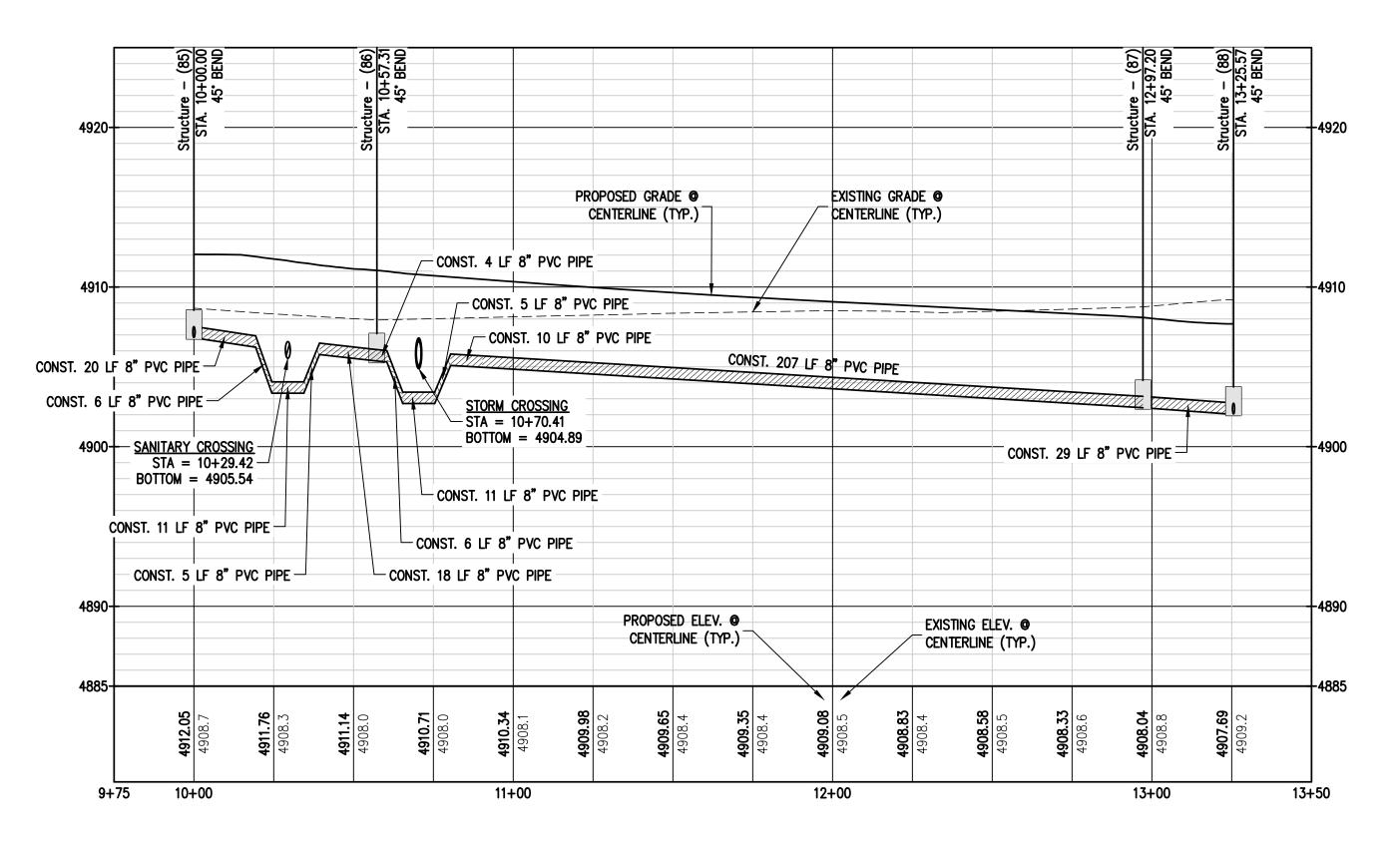


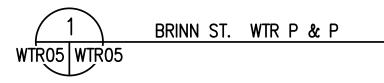


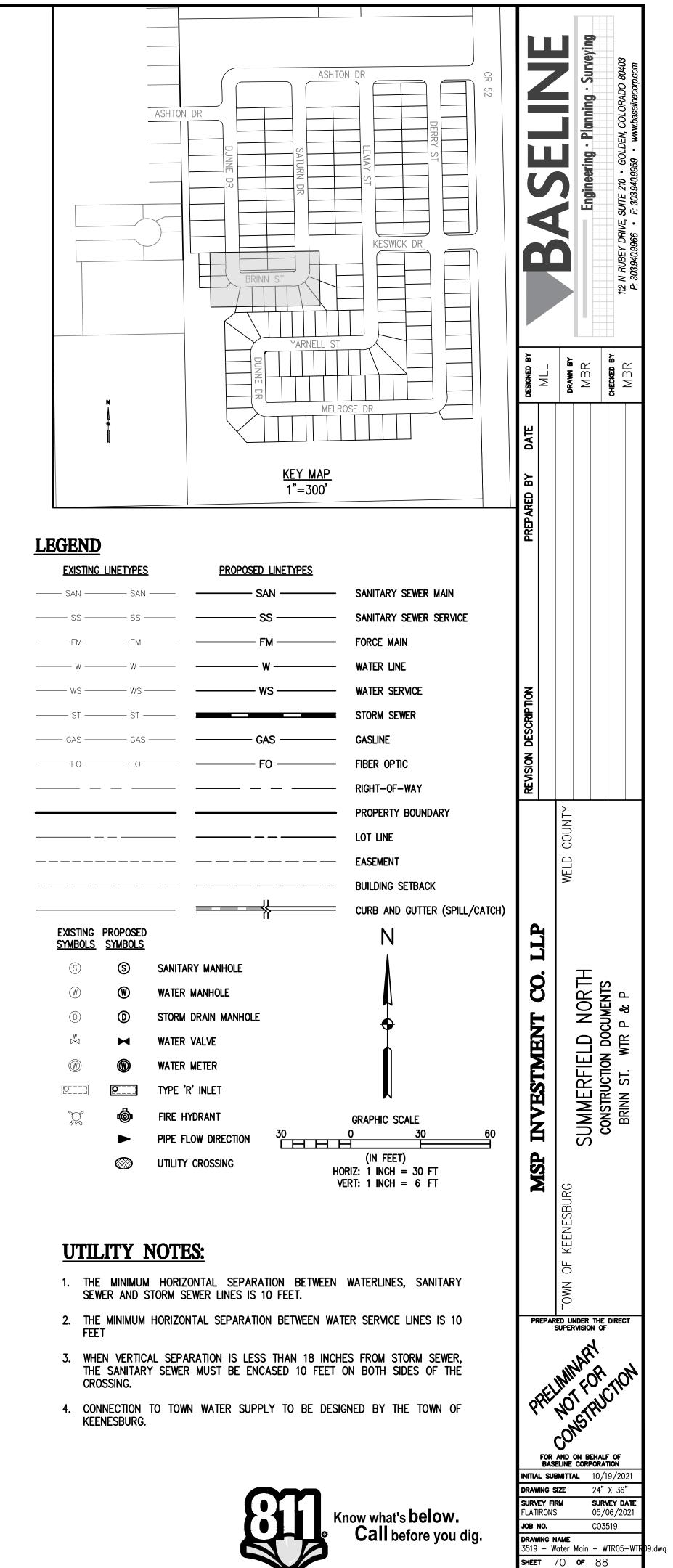


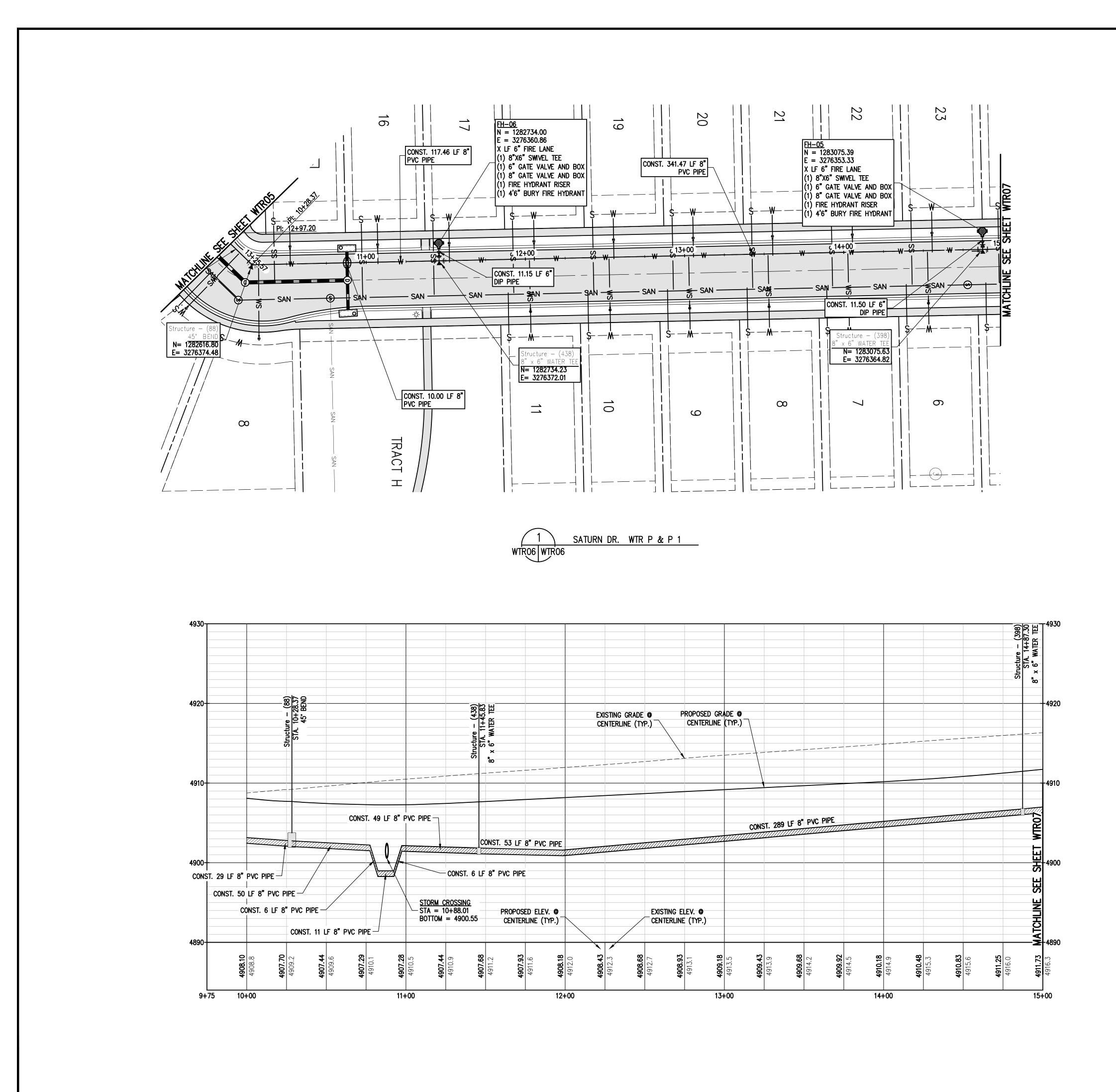


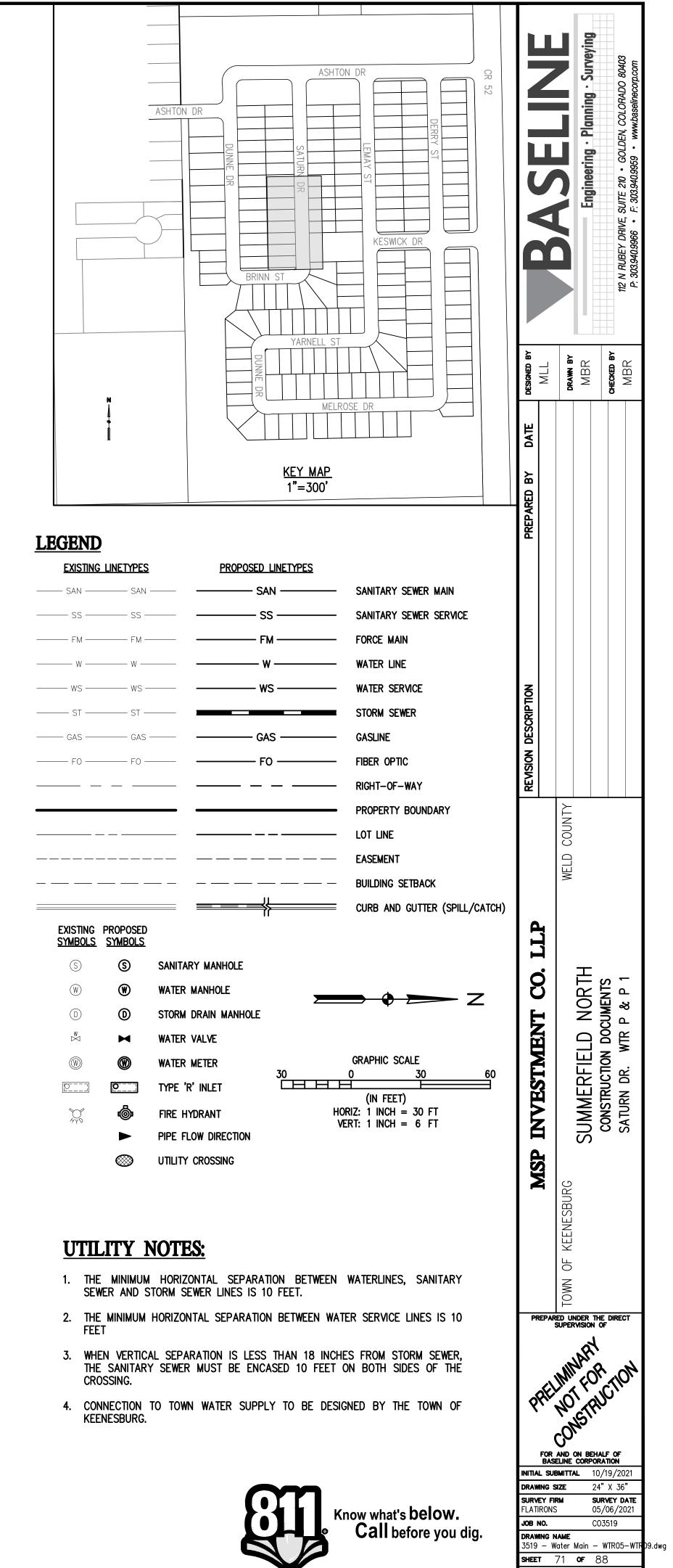


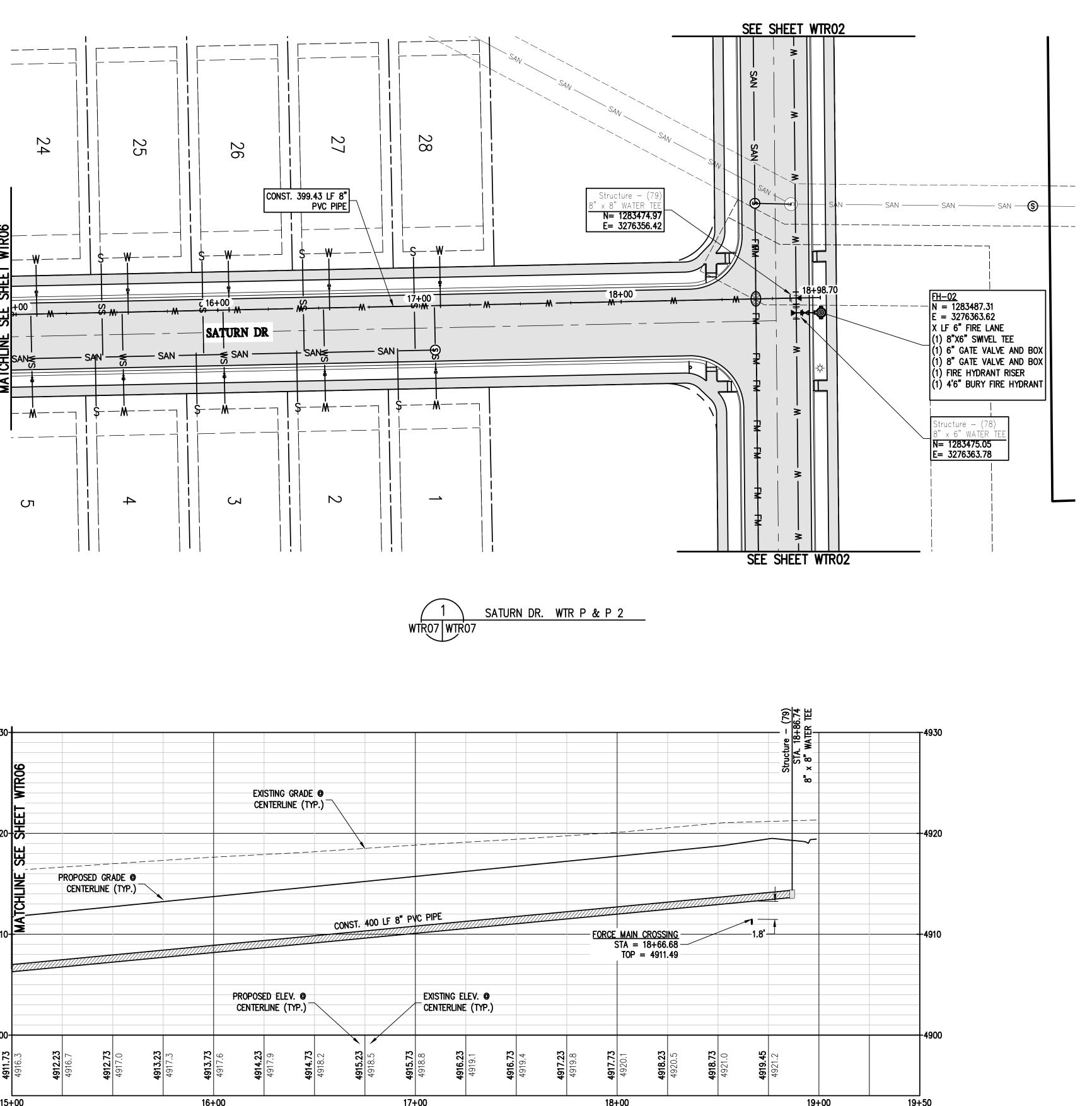


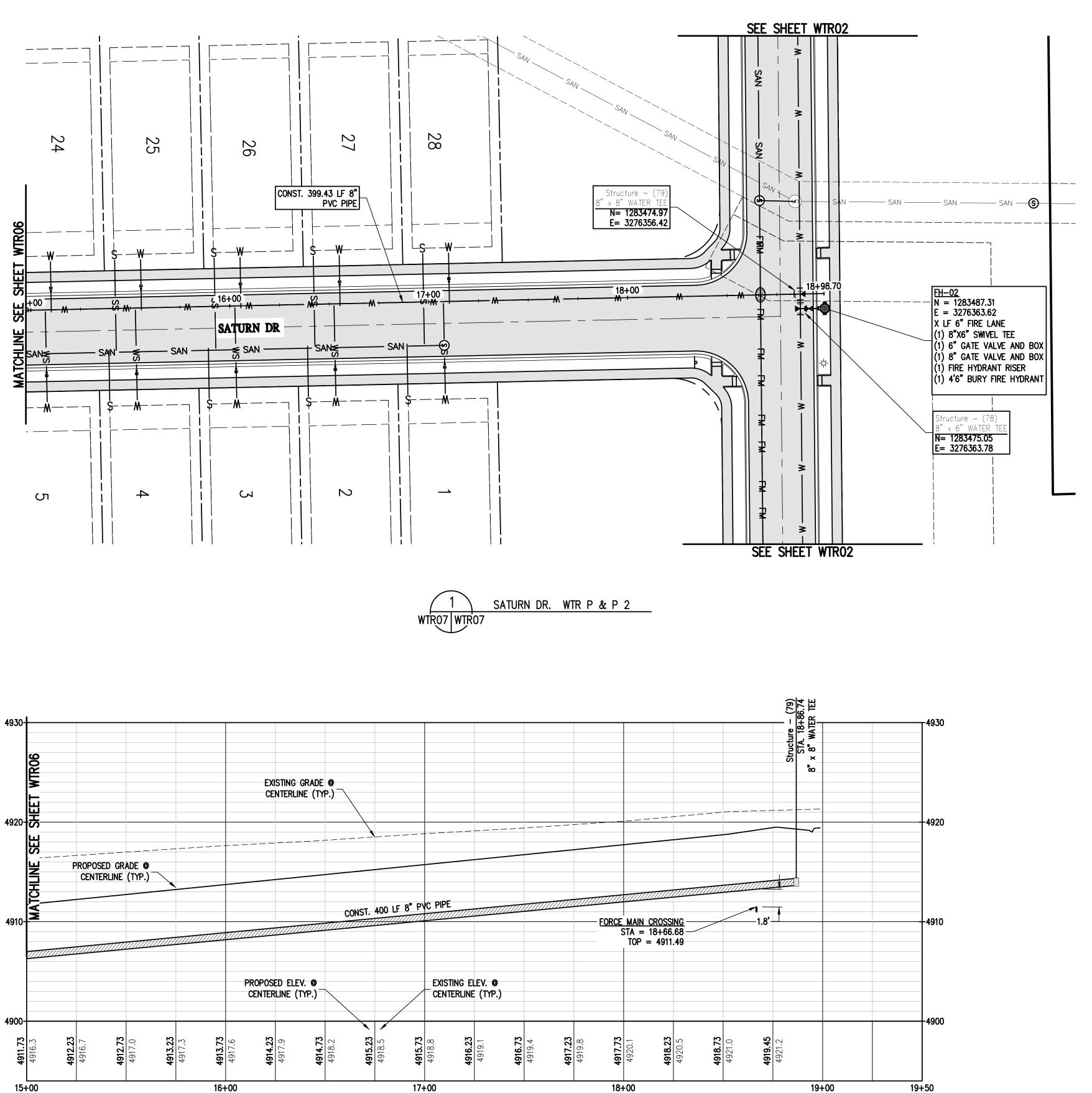


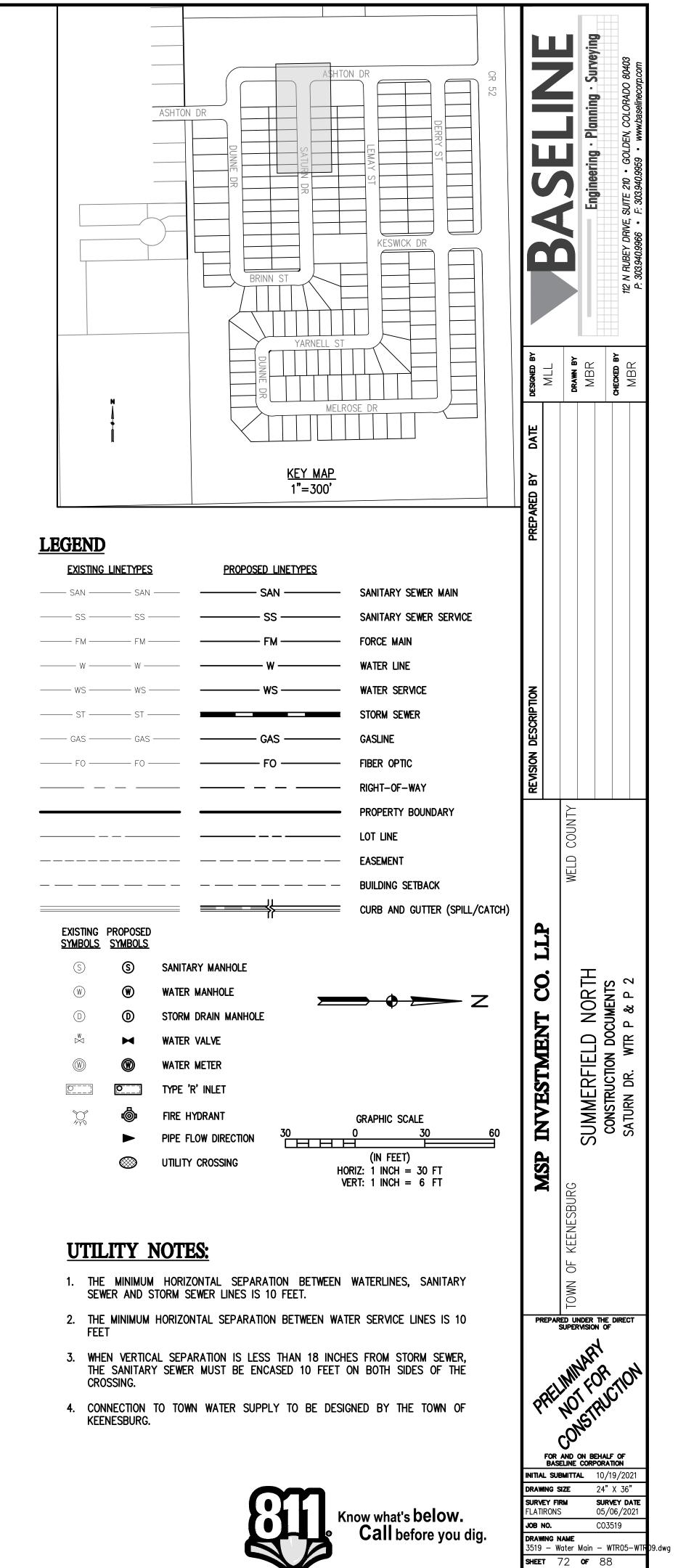


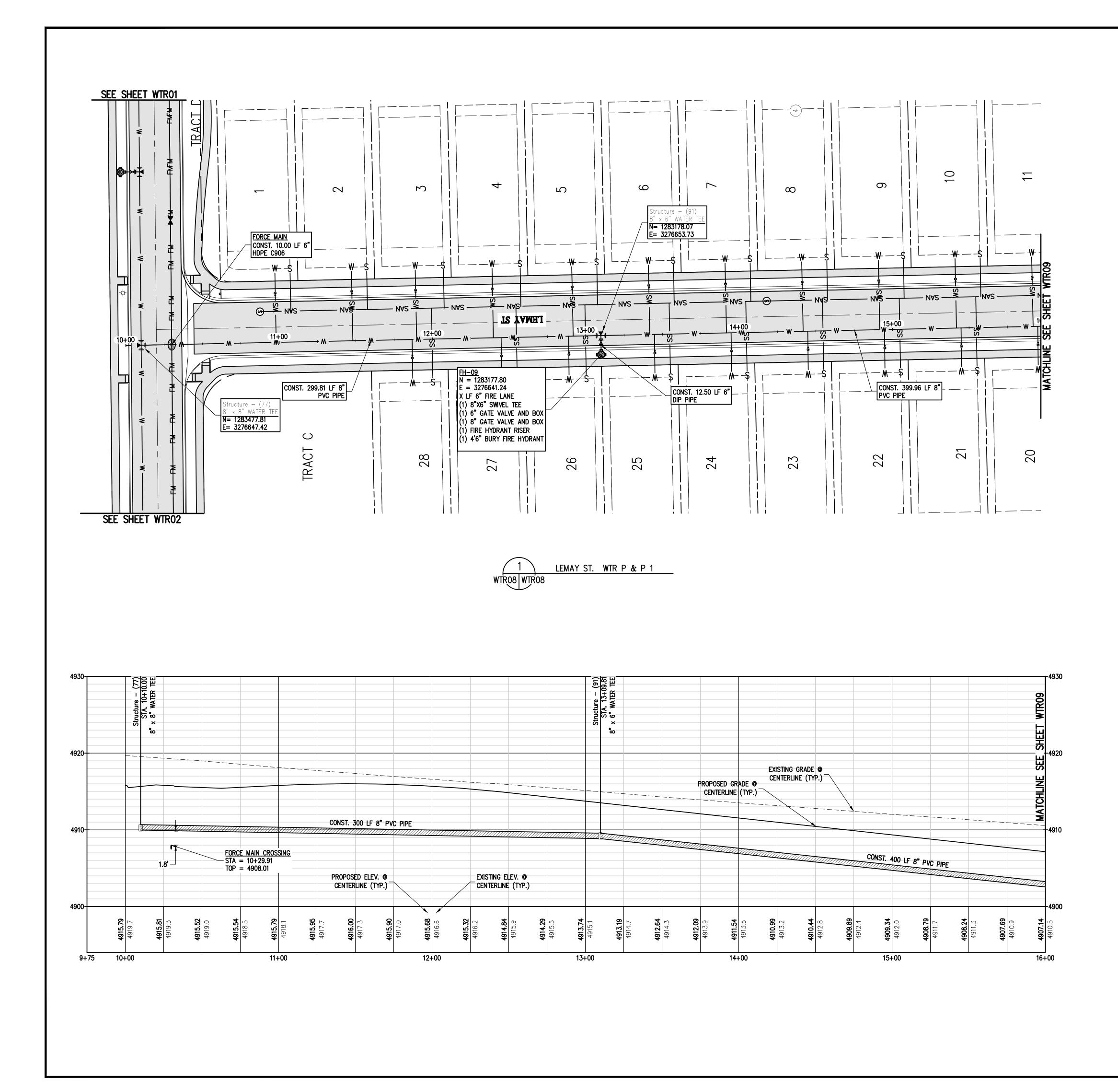


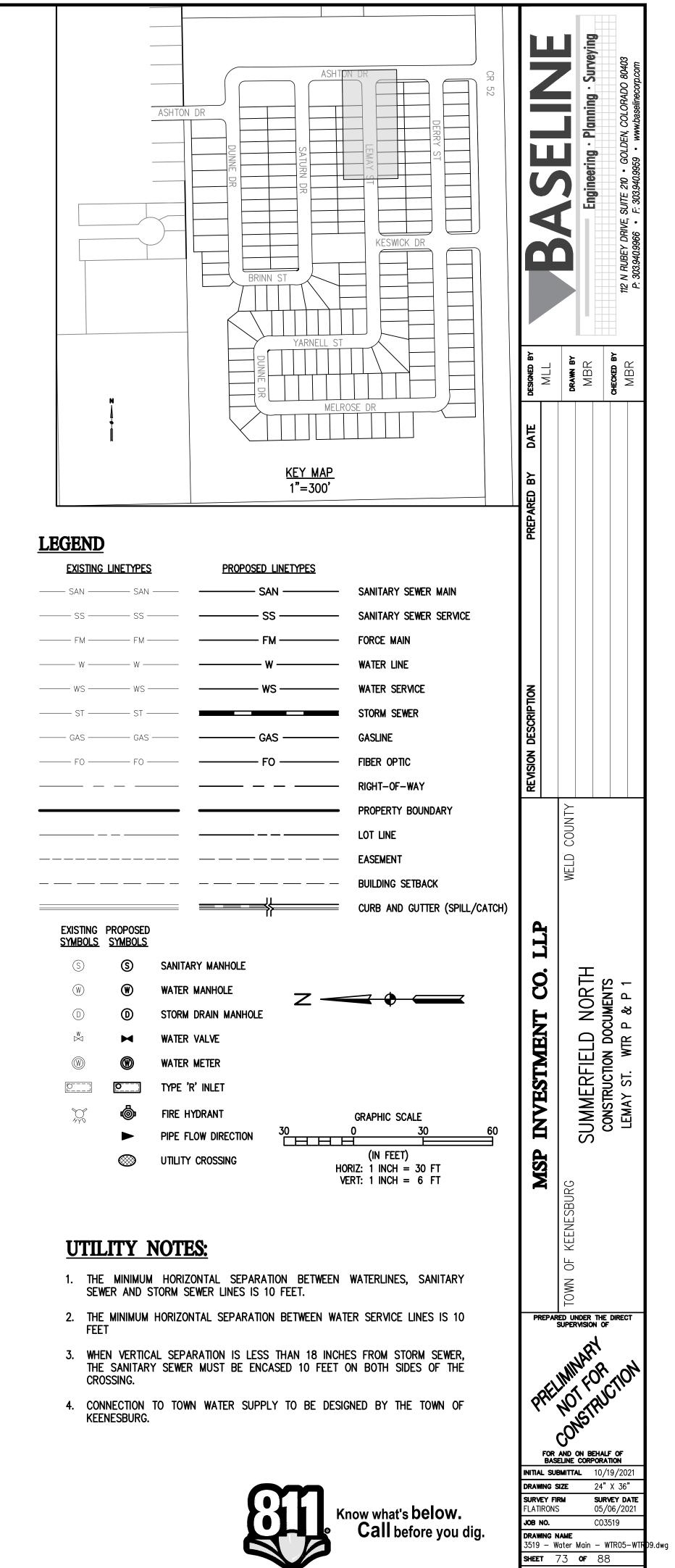


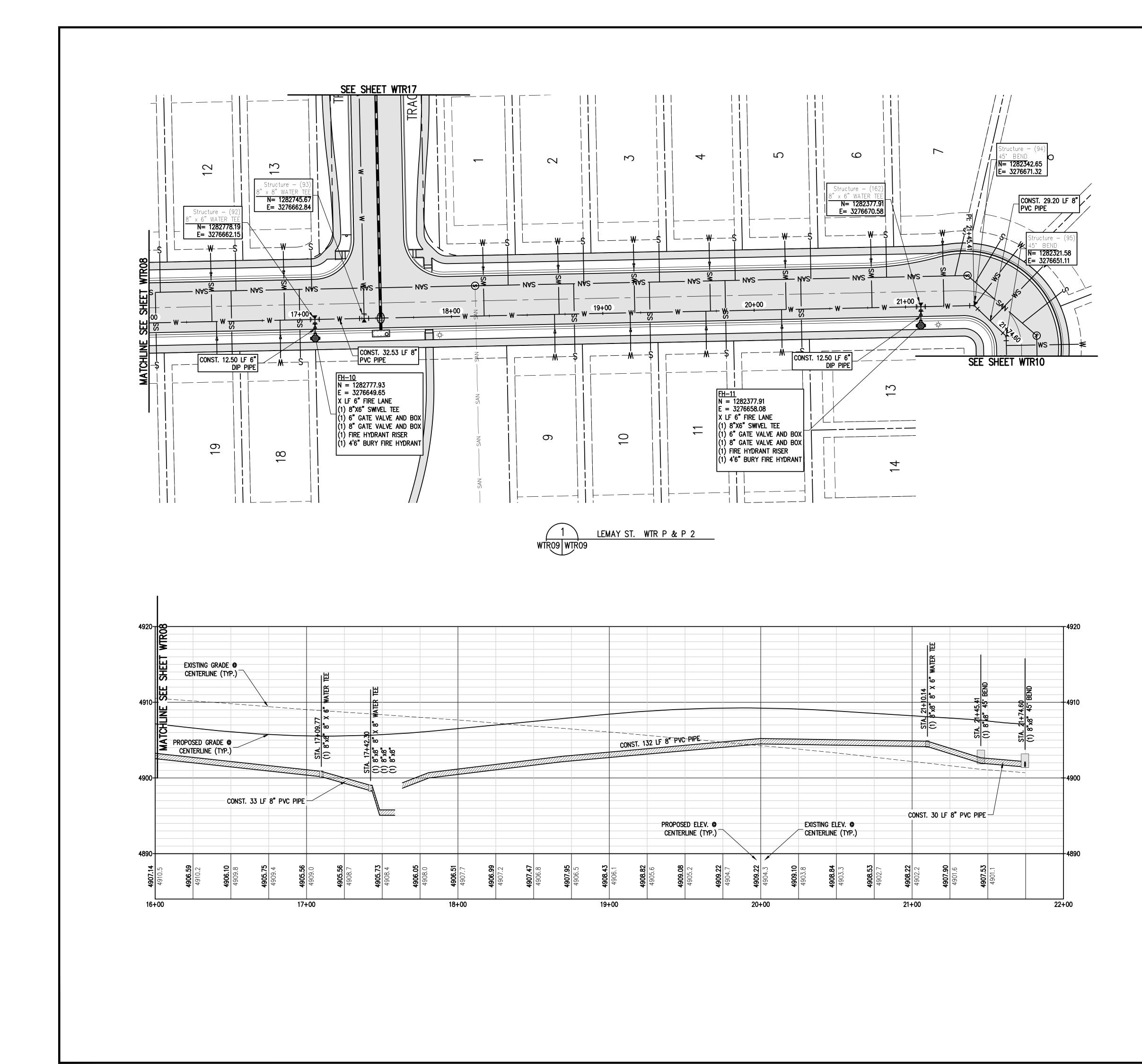


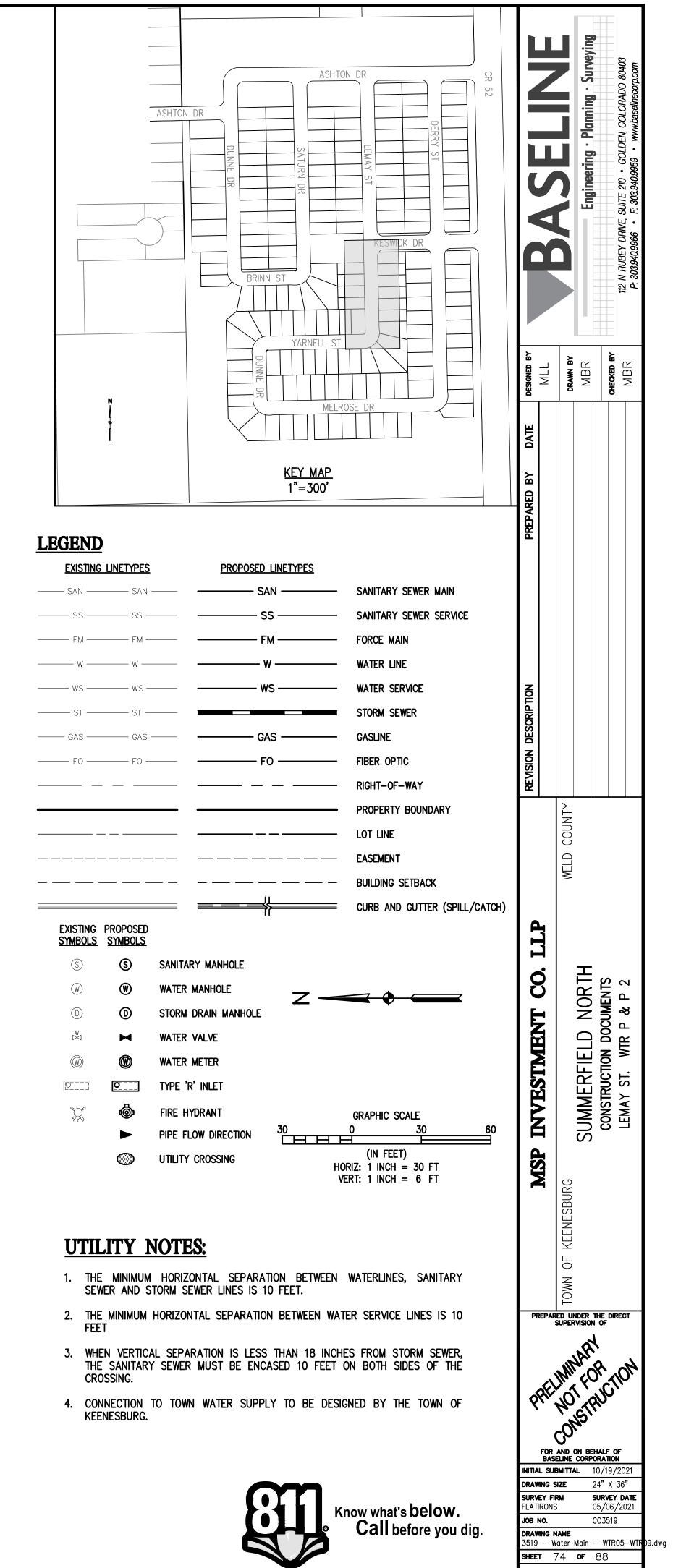


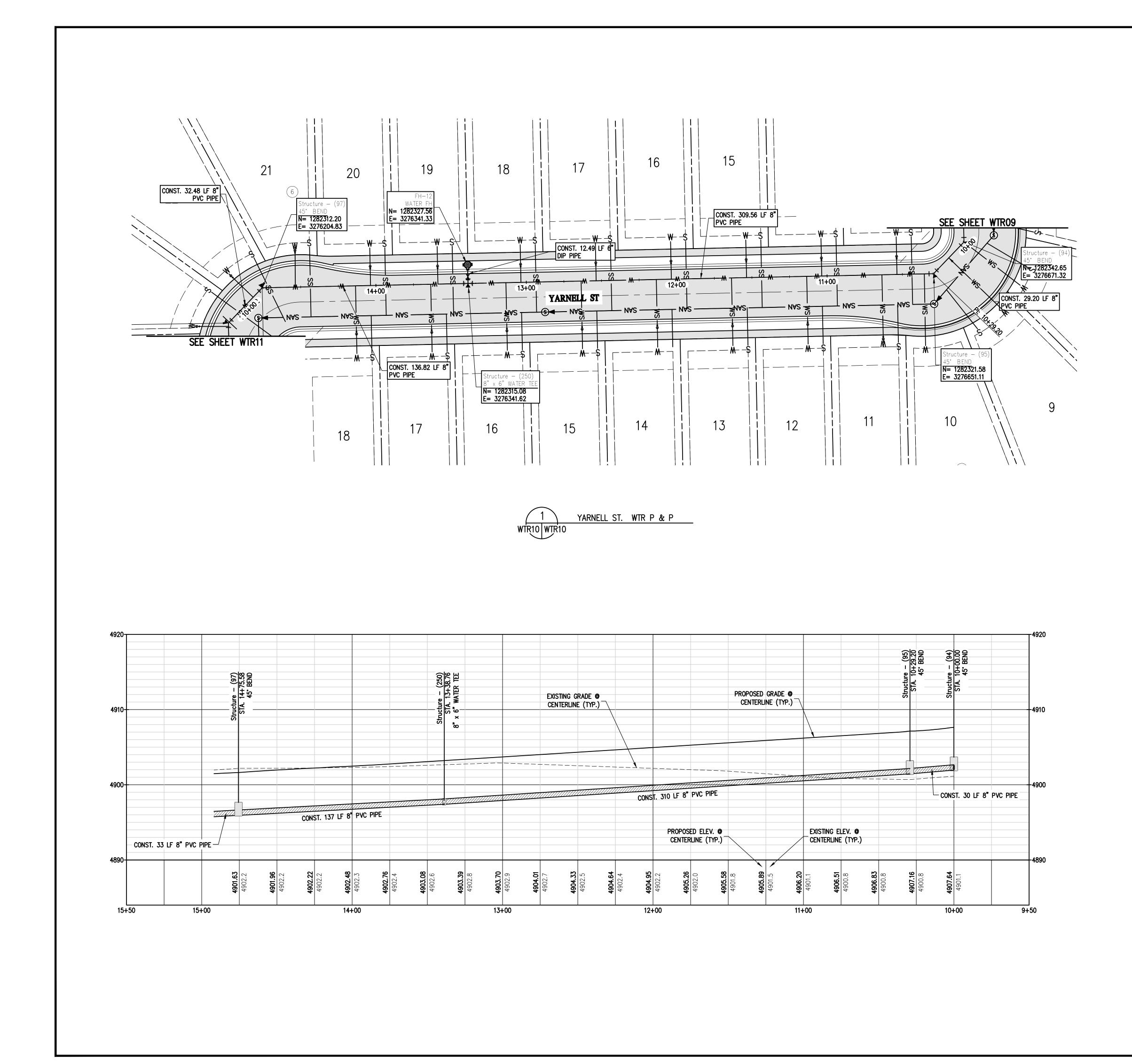


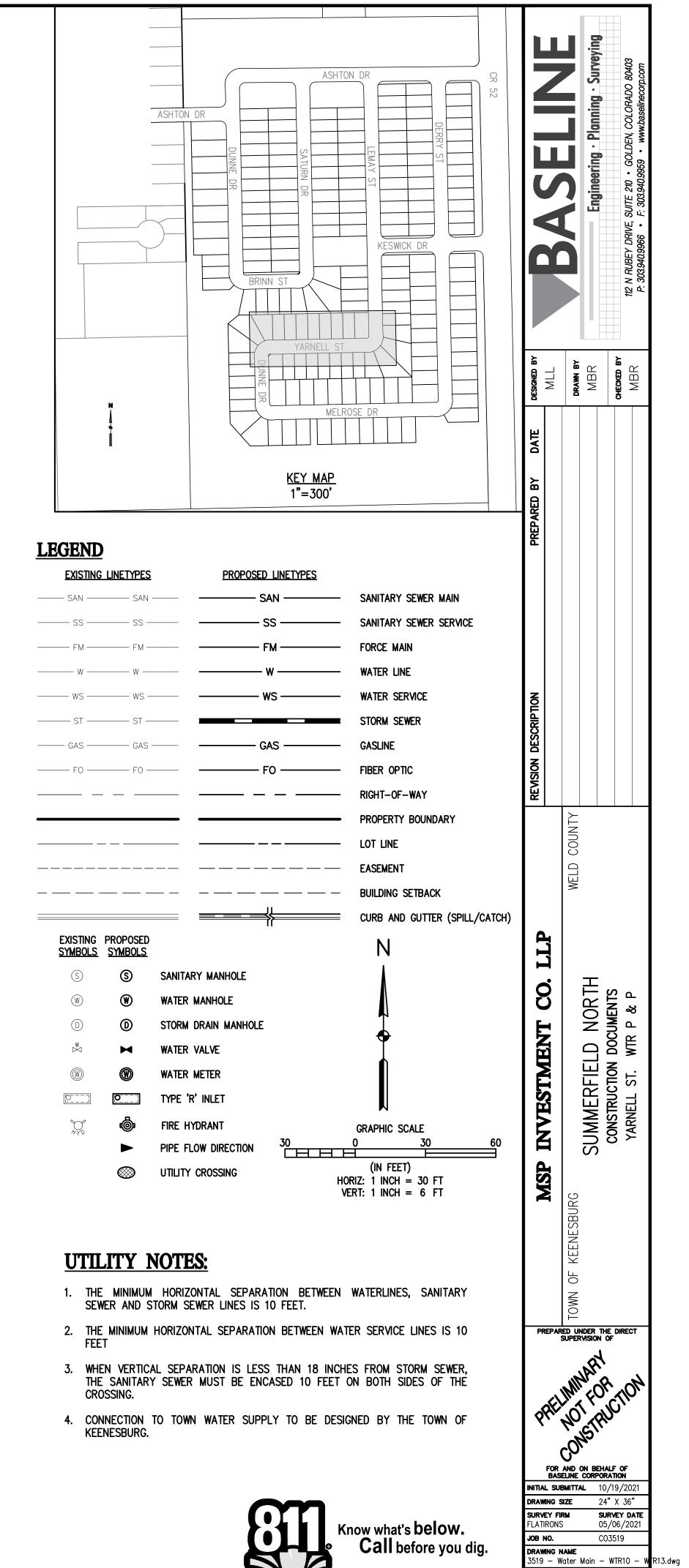




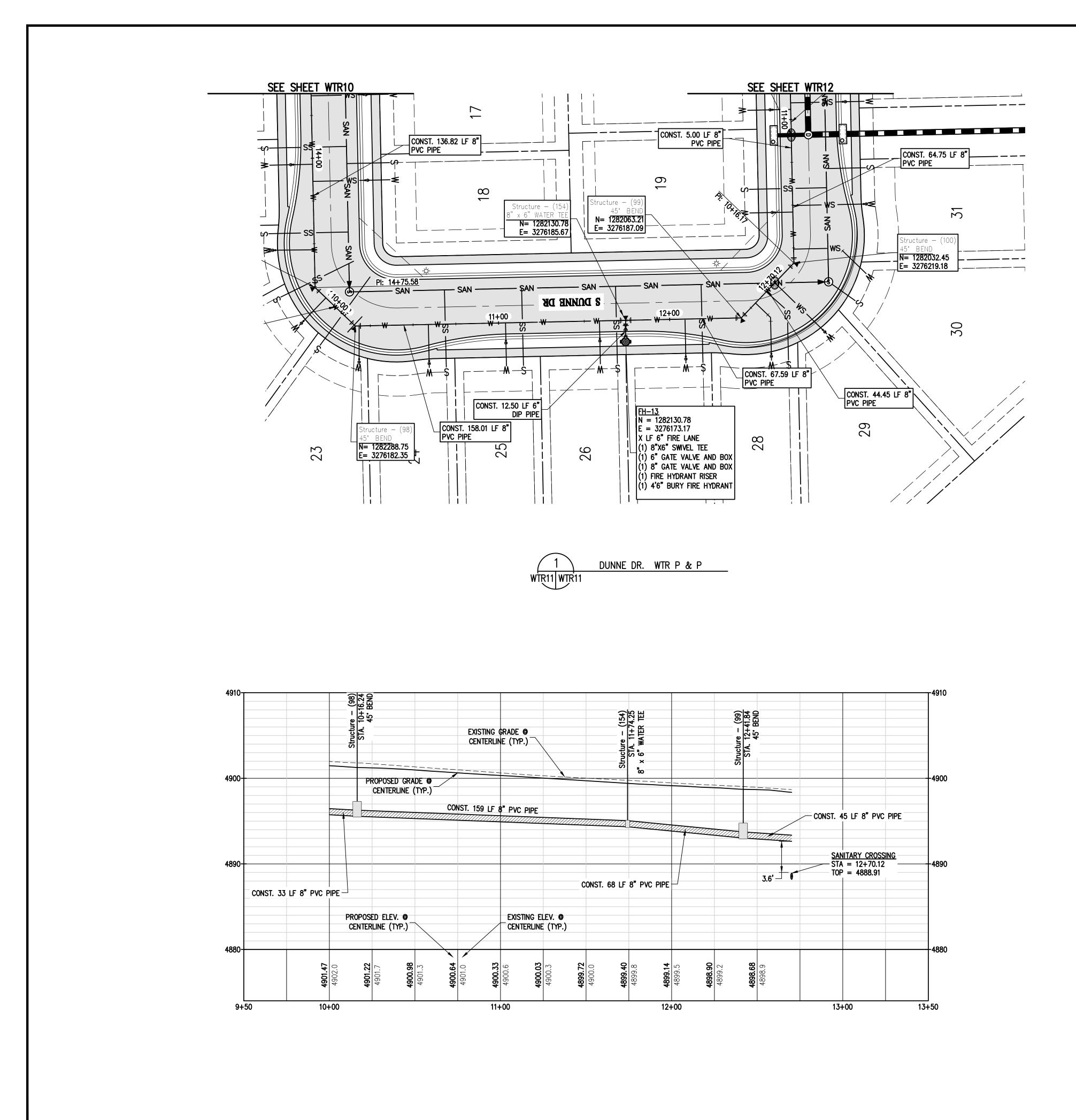


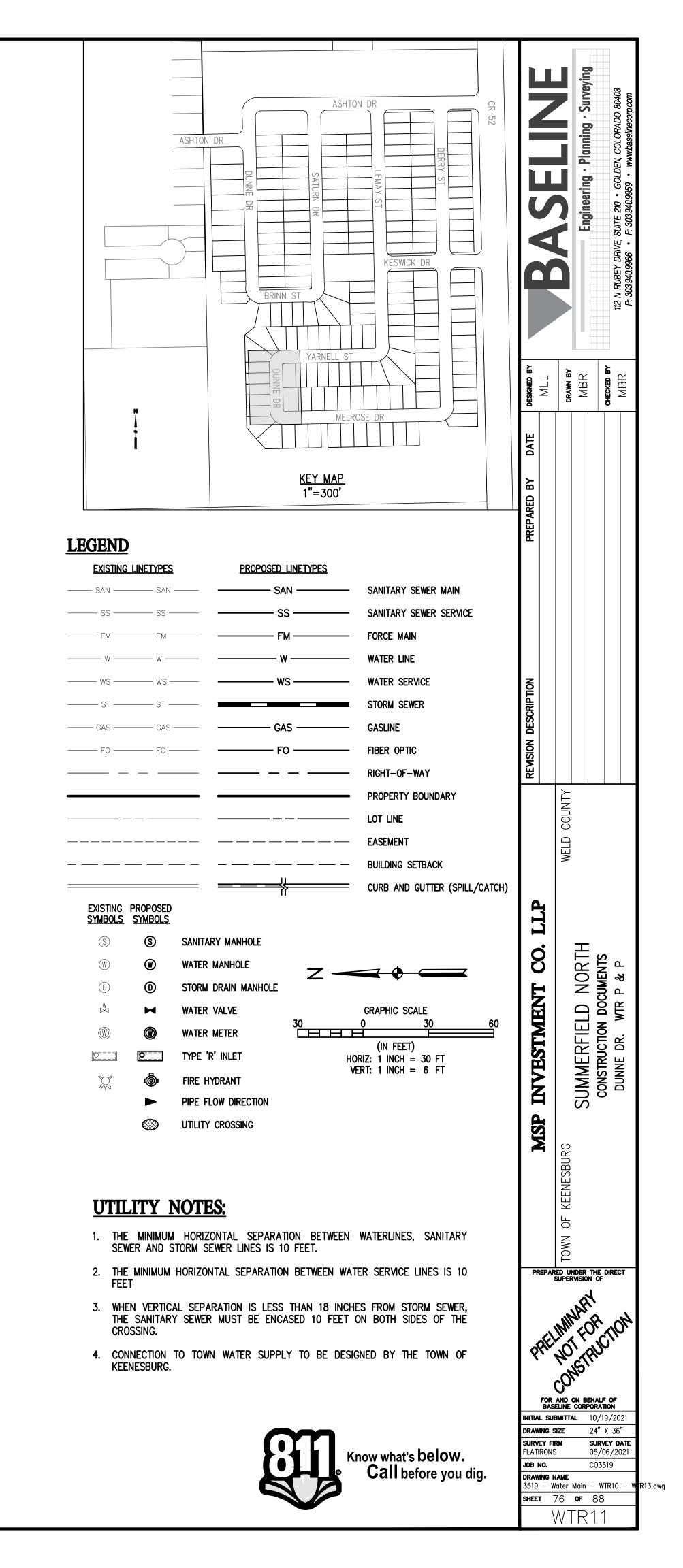


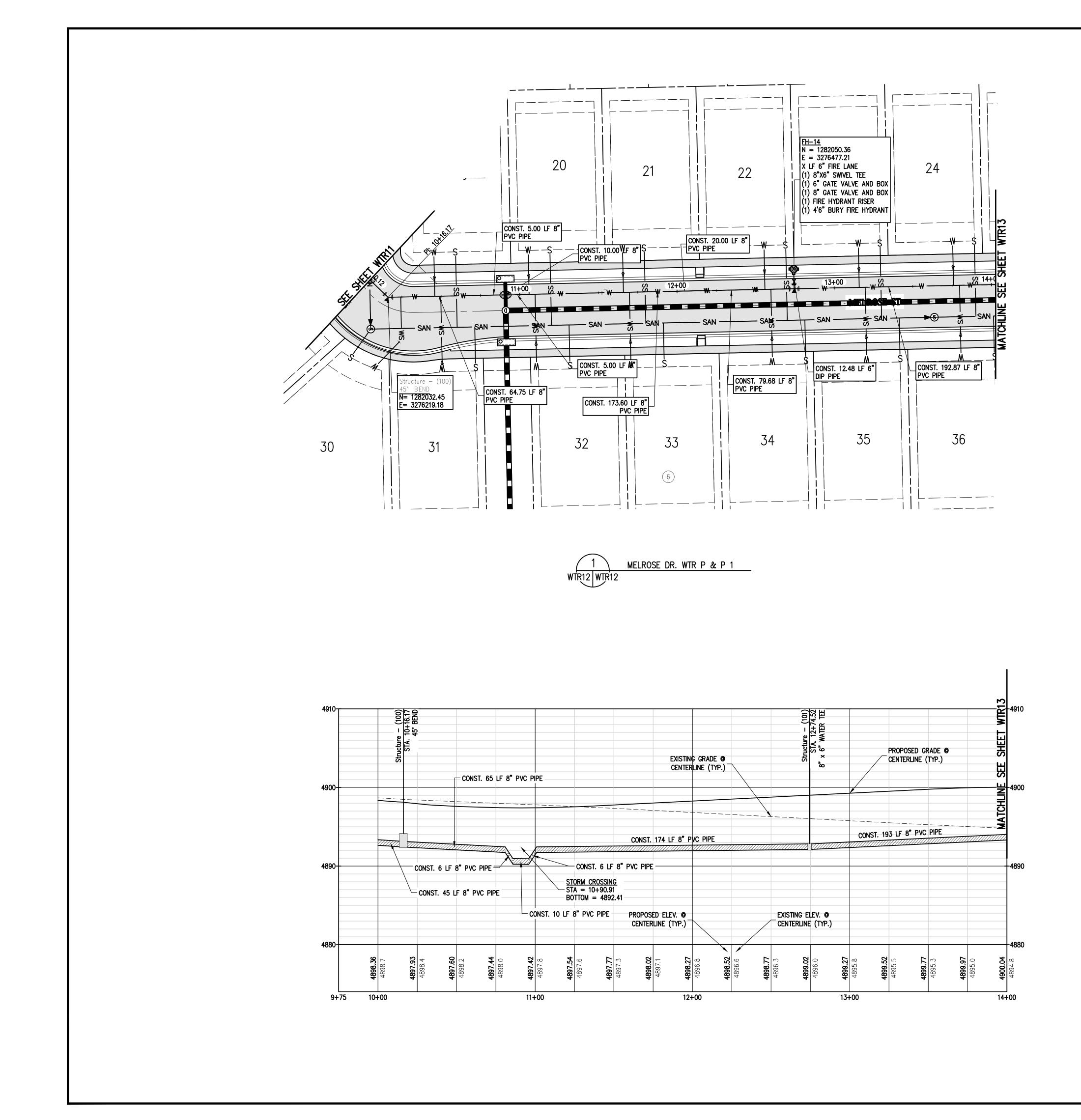


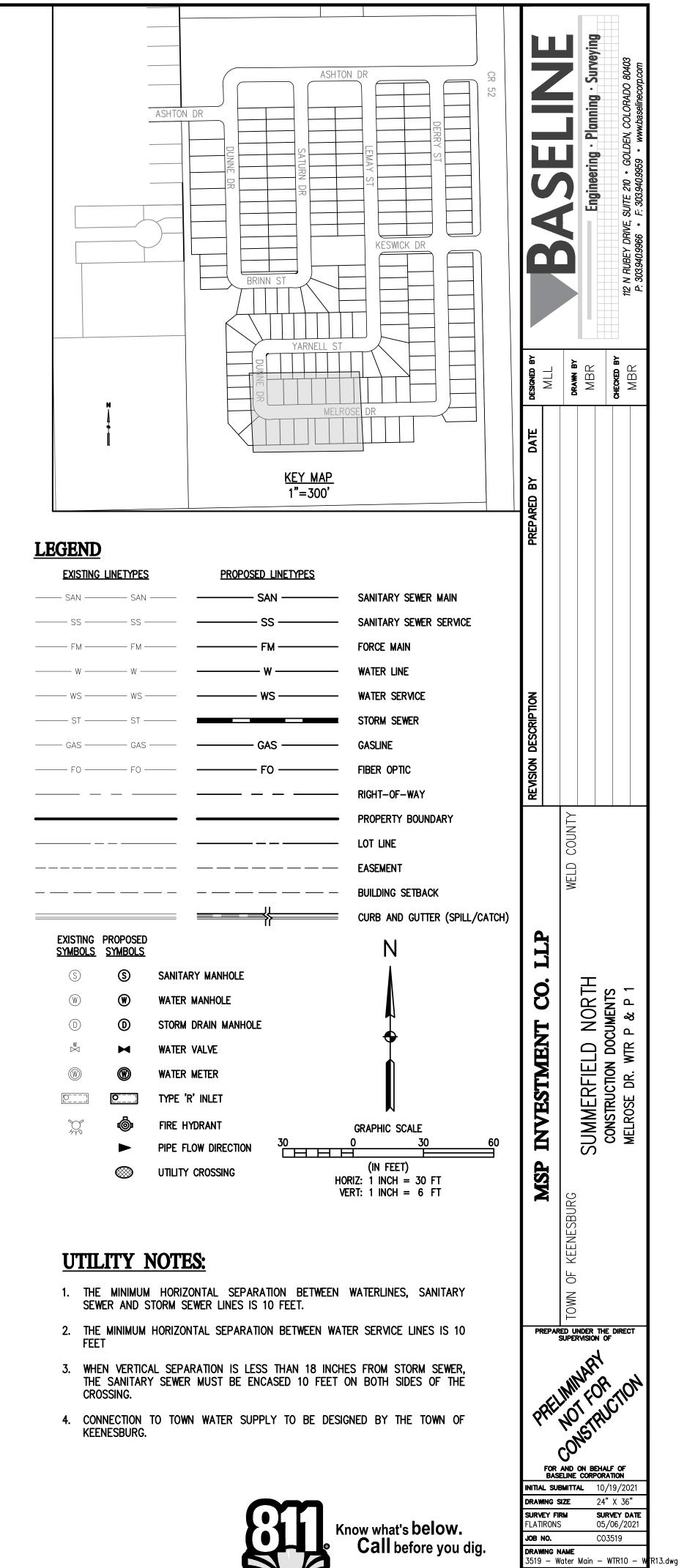


**Sheet** 75 **of** 88 WTR10

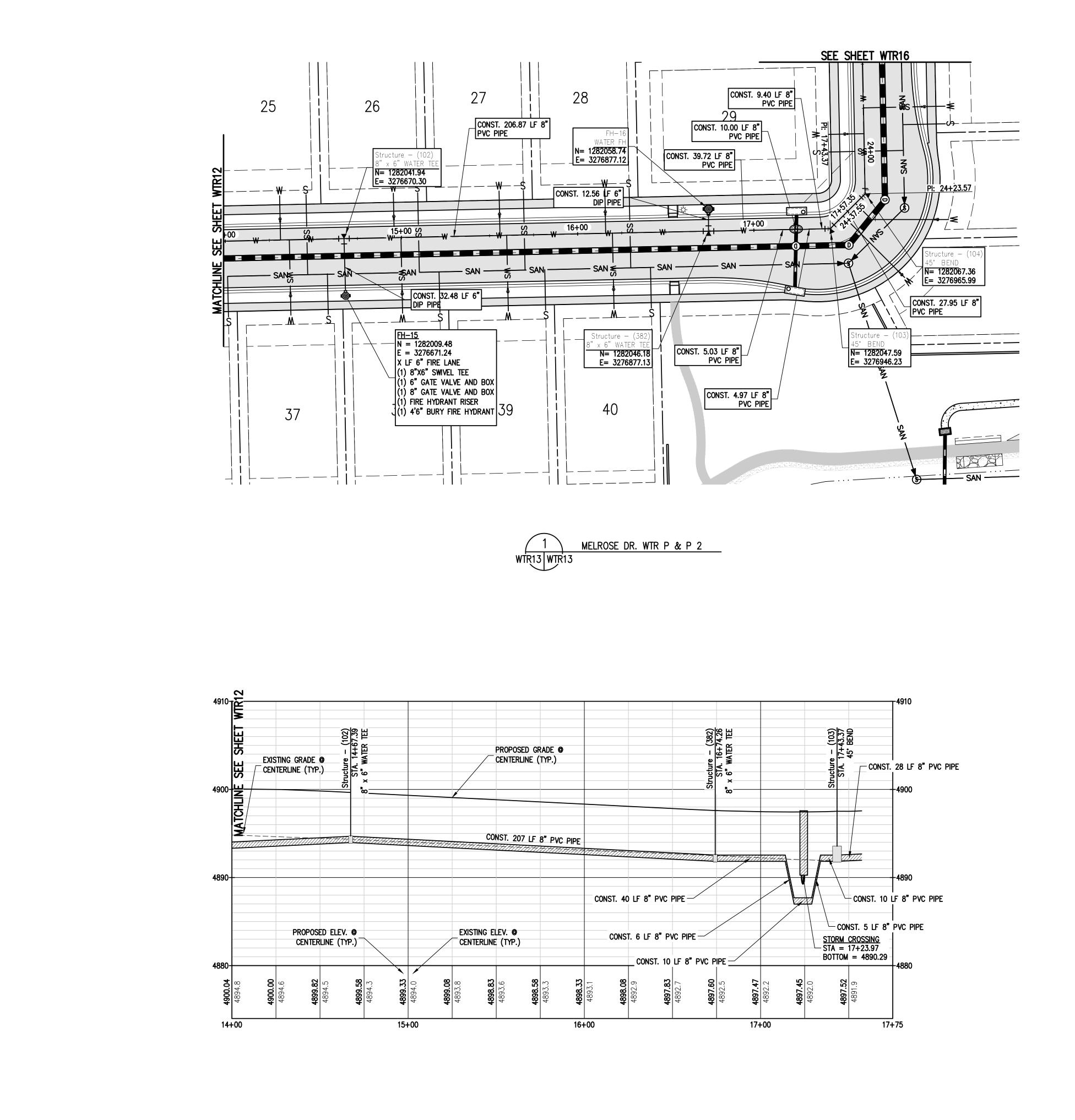


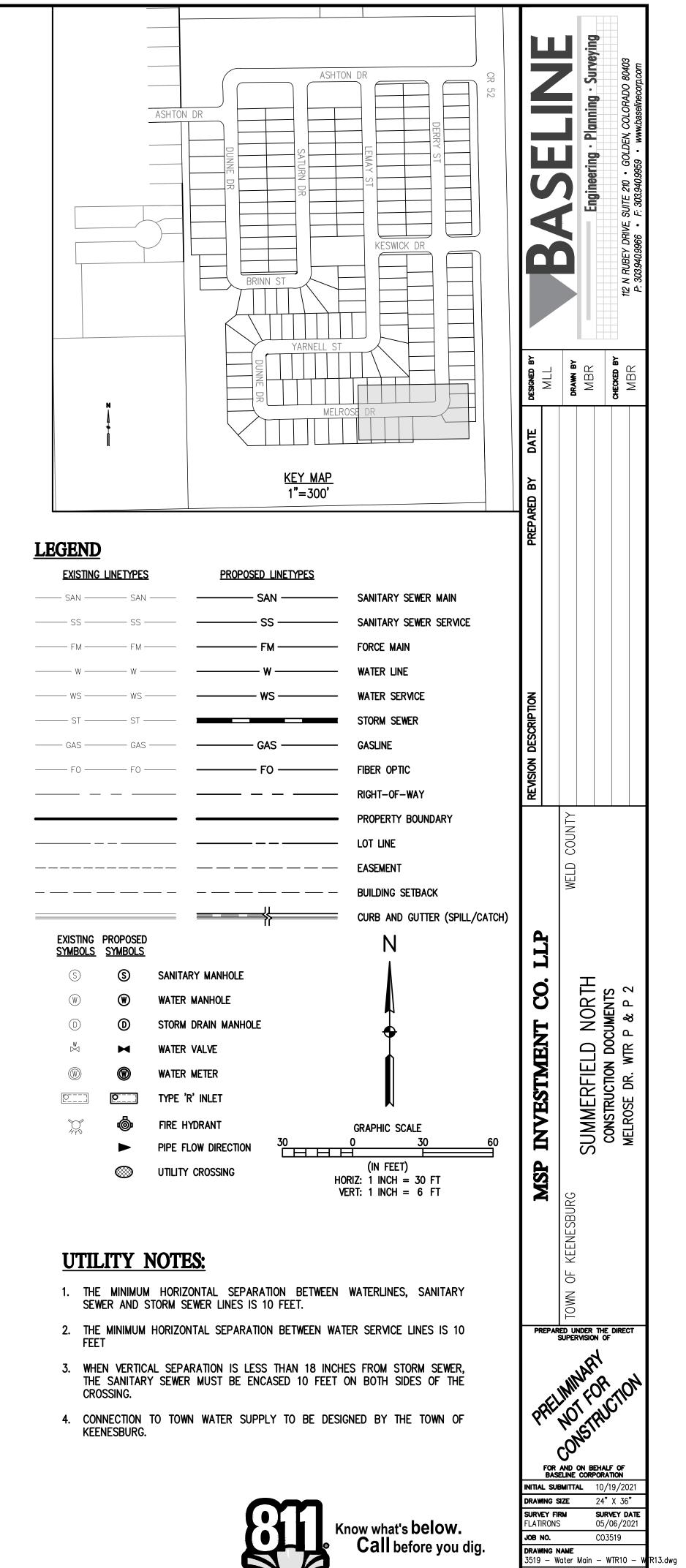




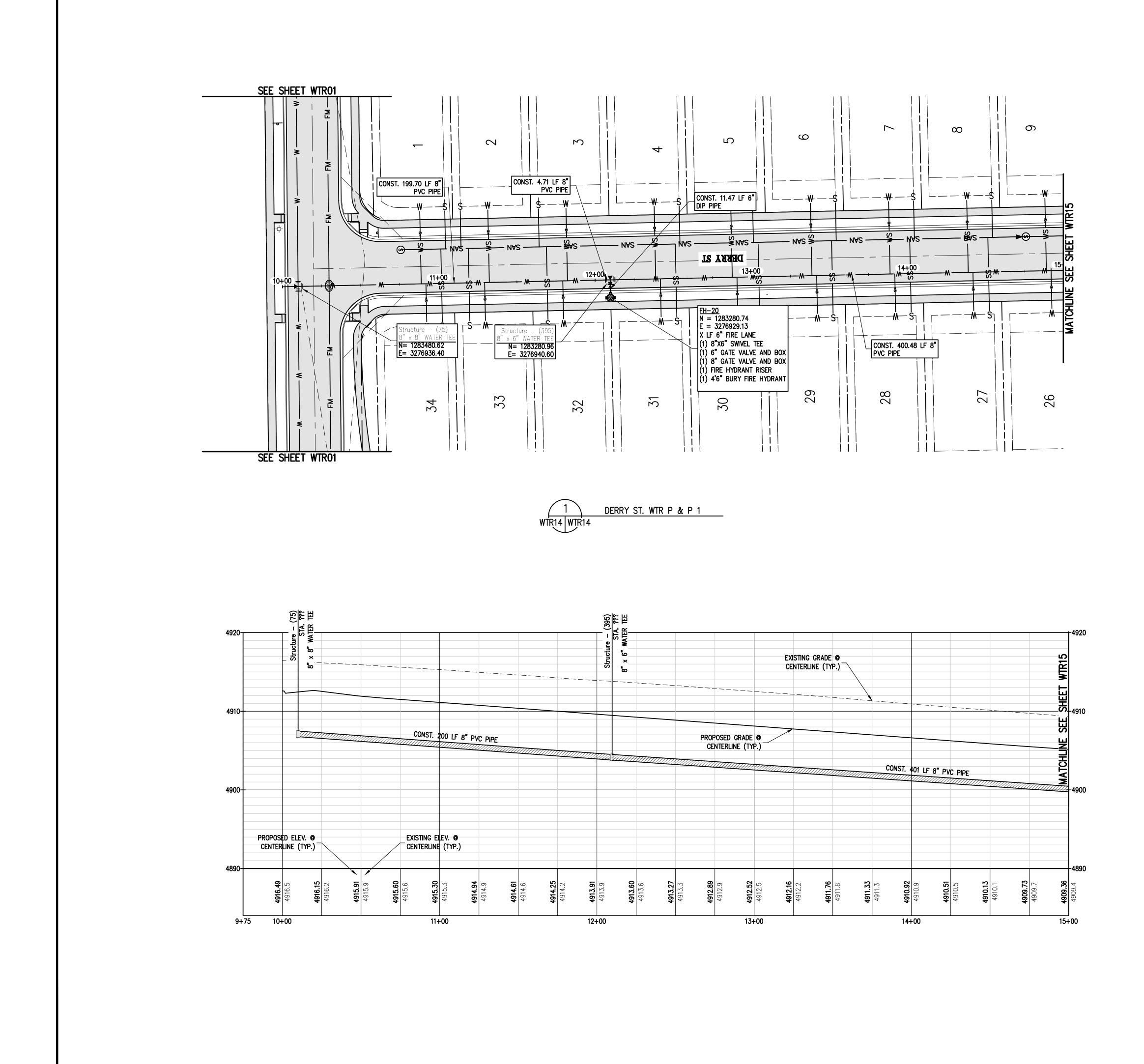


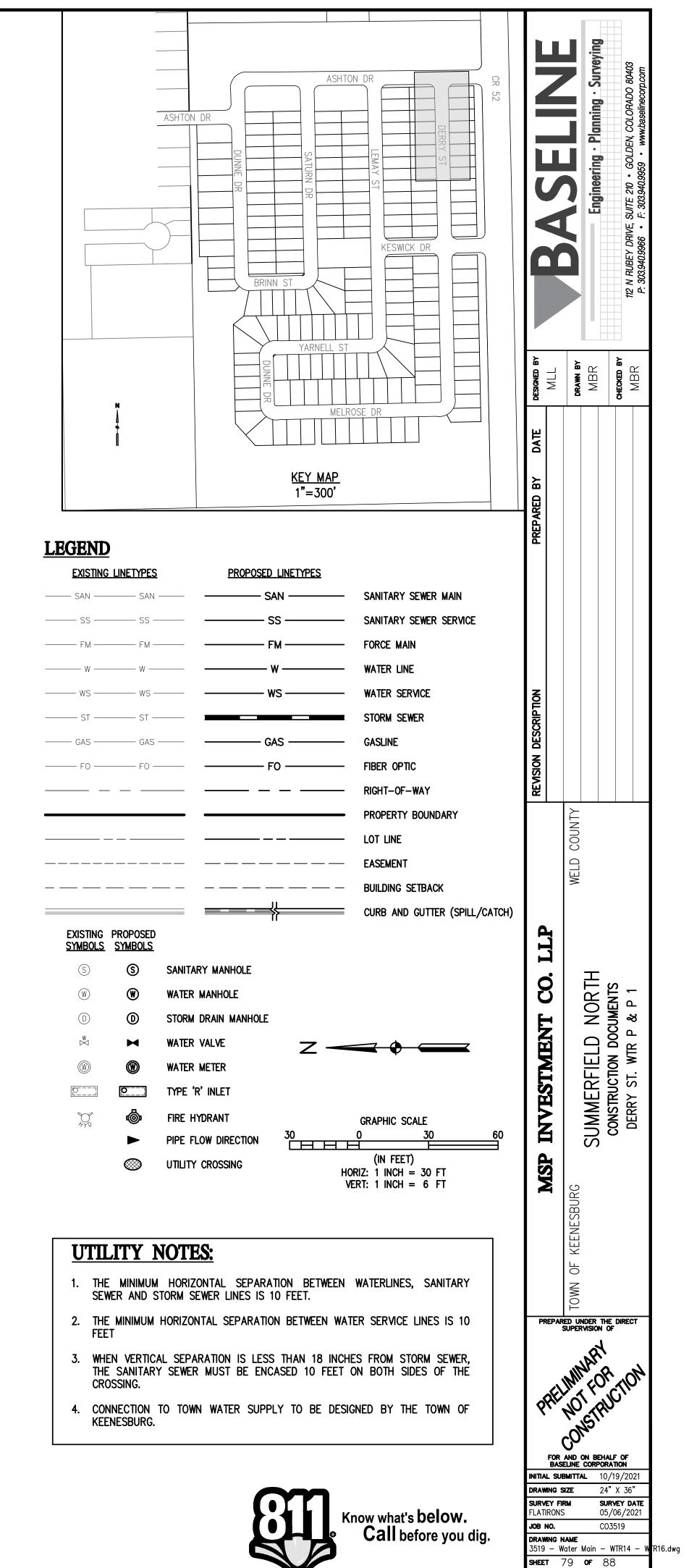
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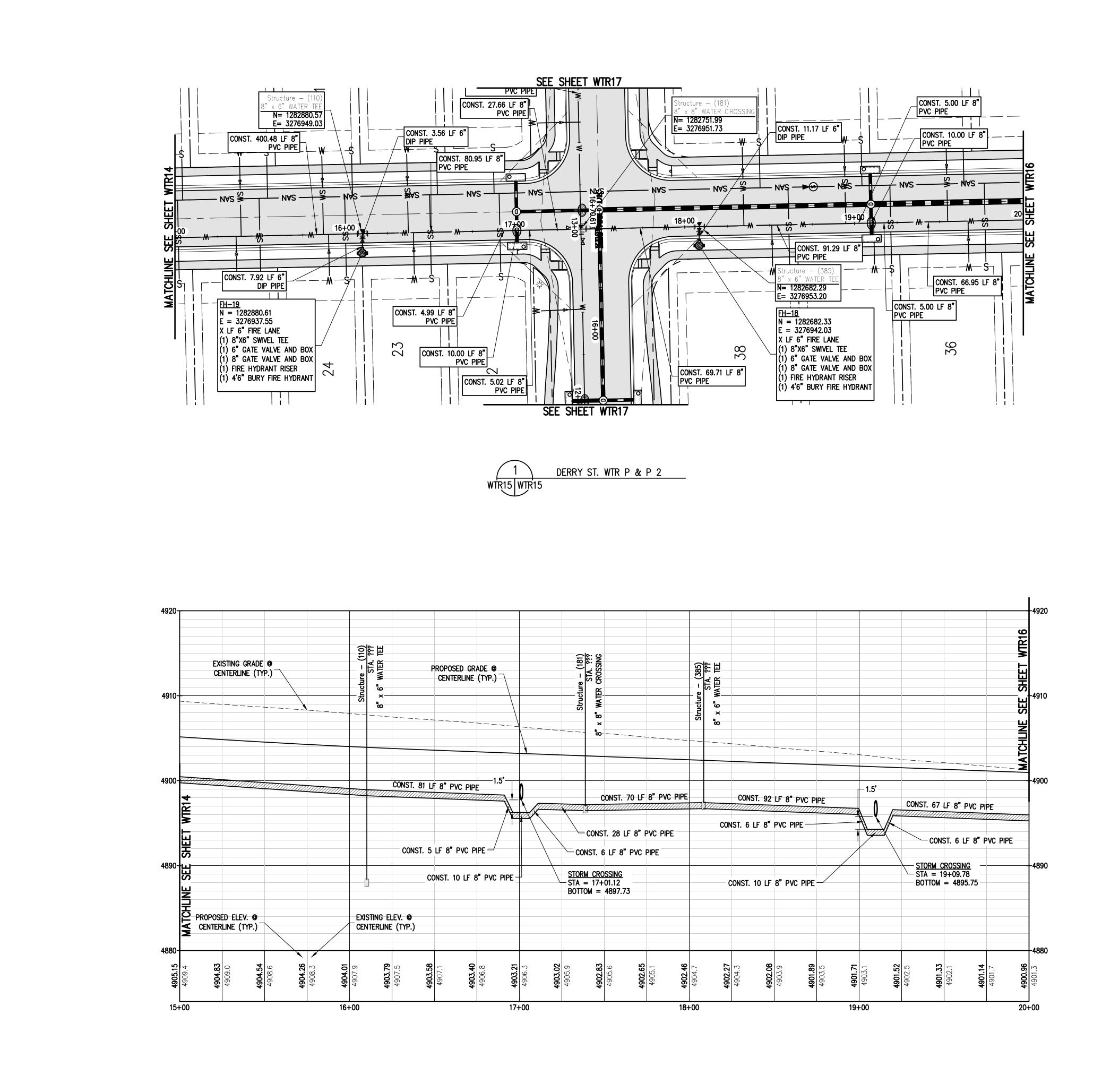


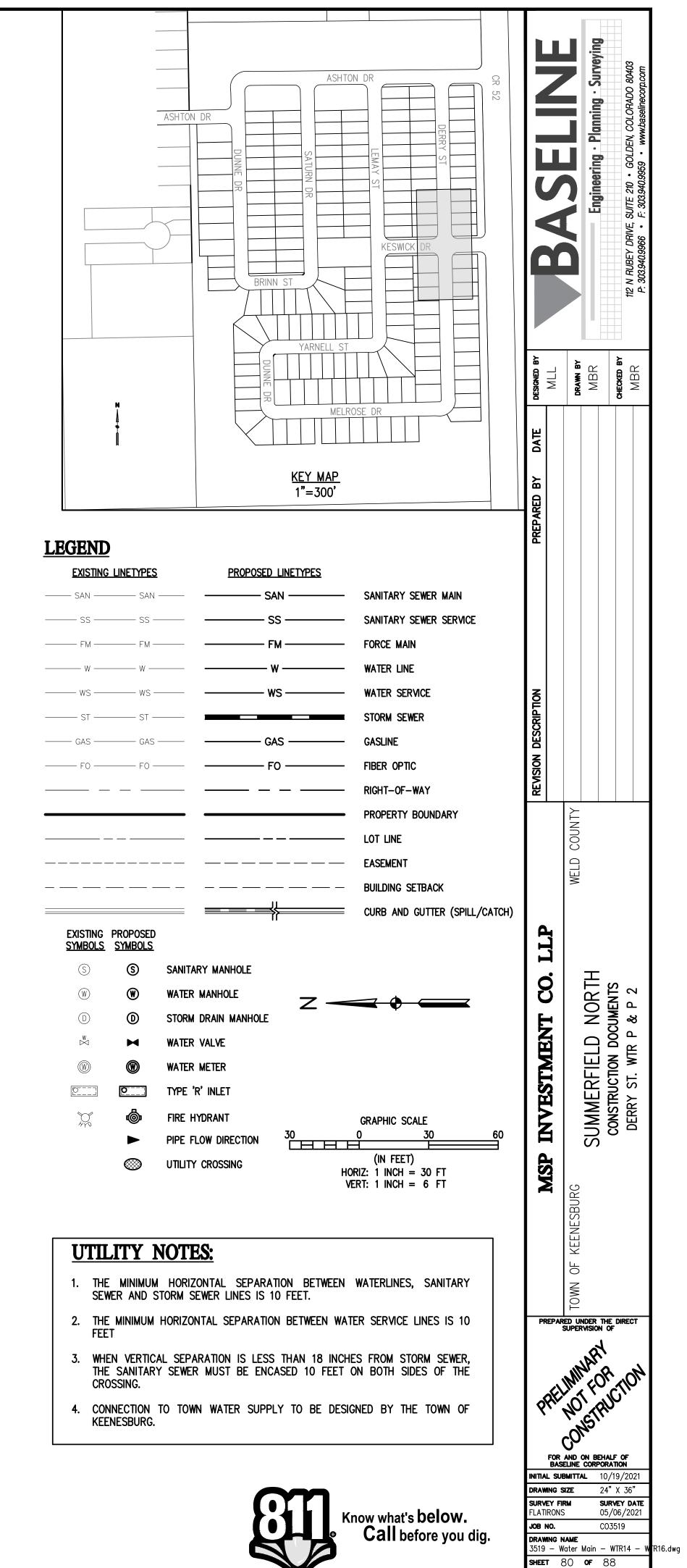


**Sheet** 78 **of** 88

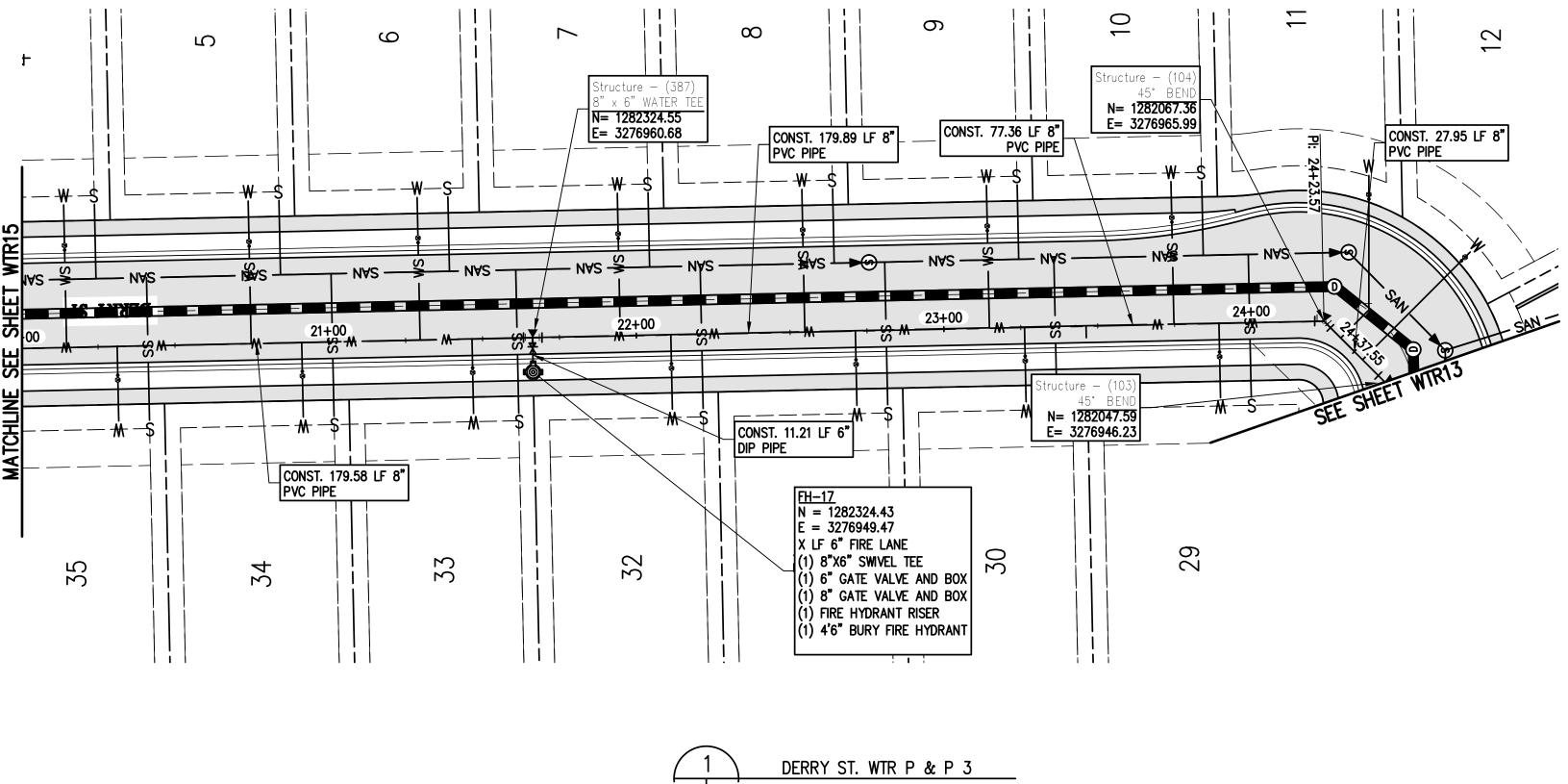


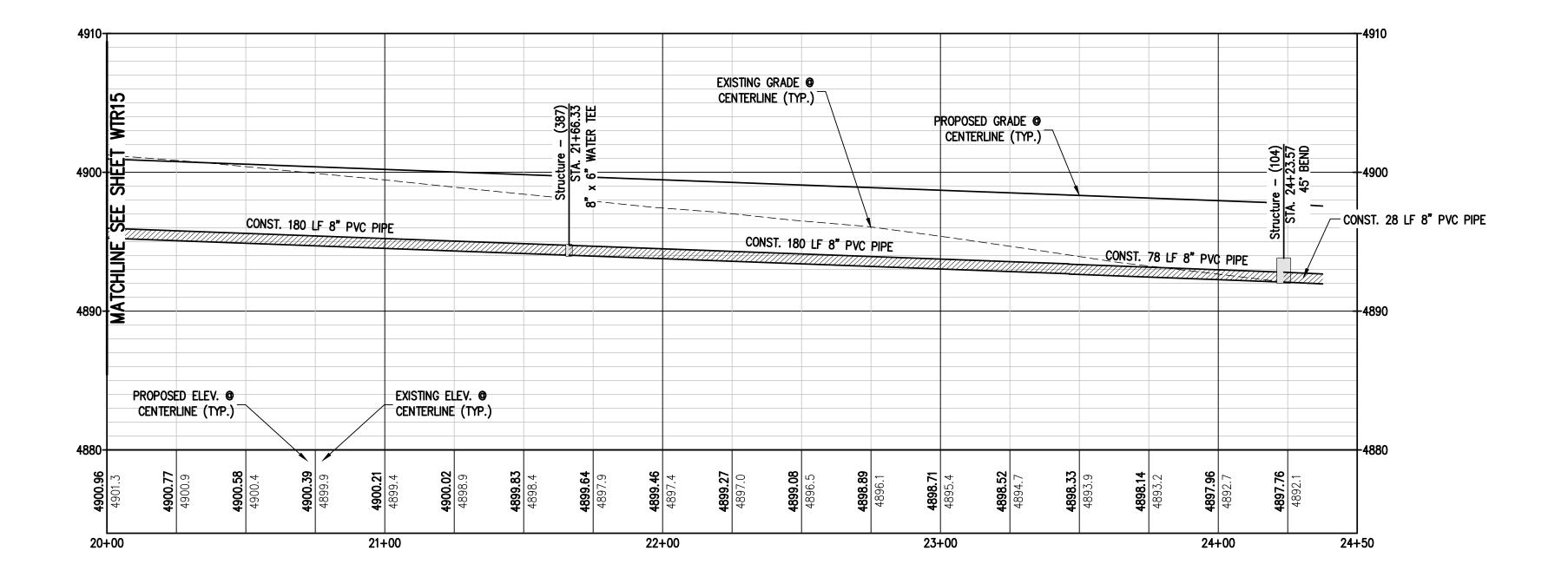




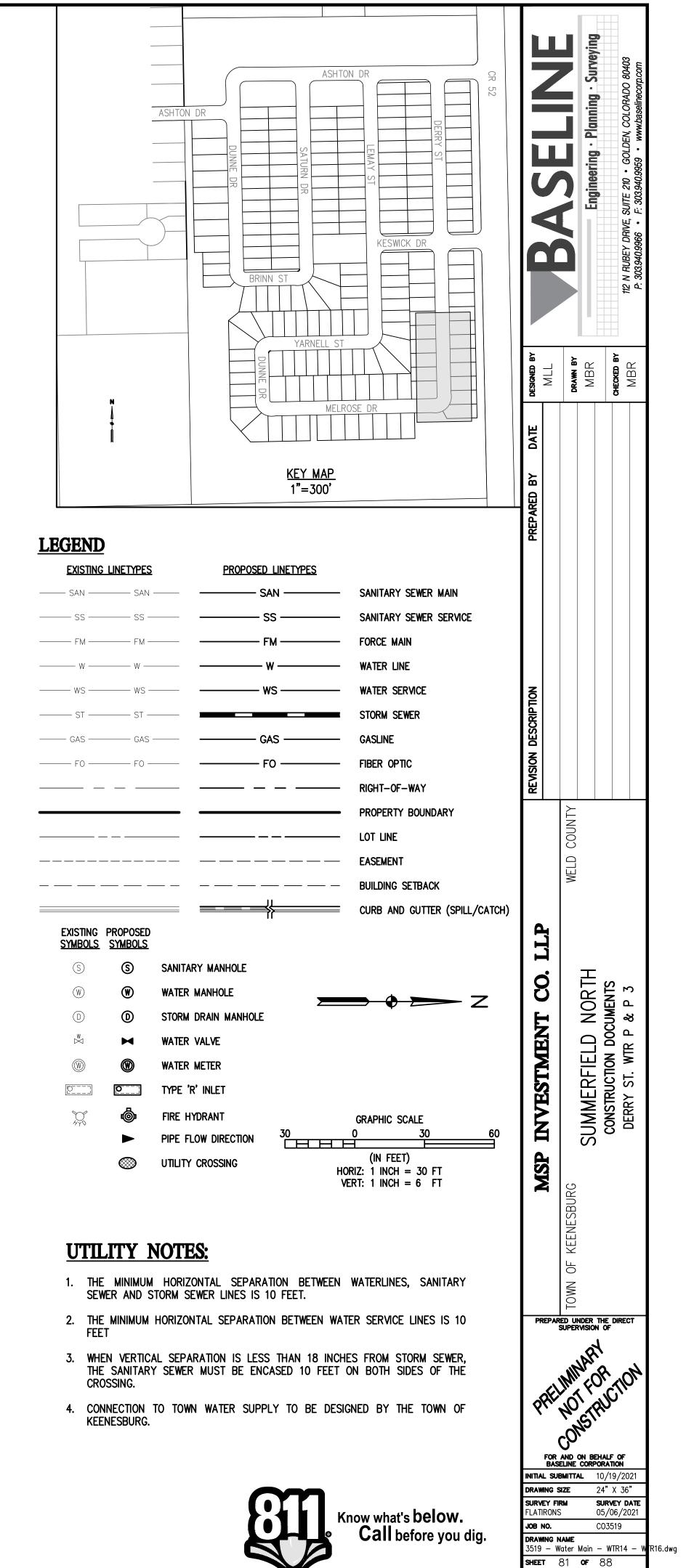


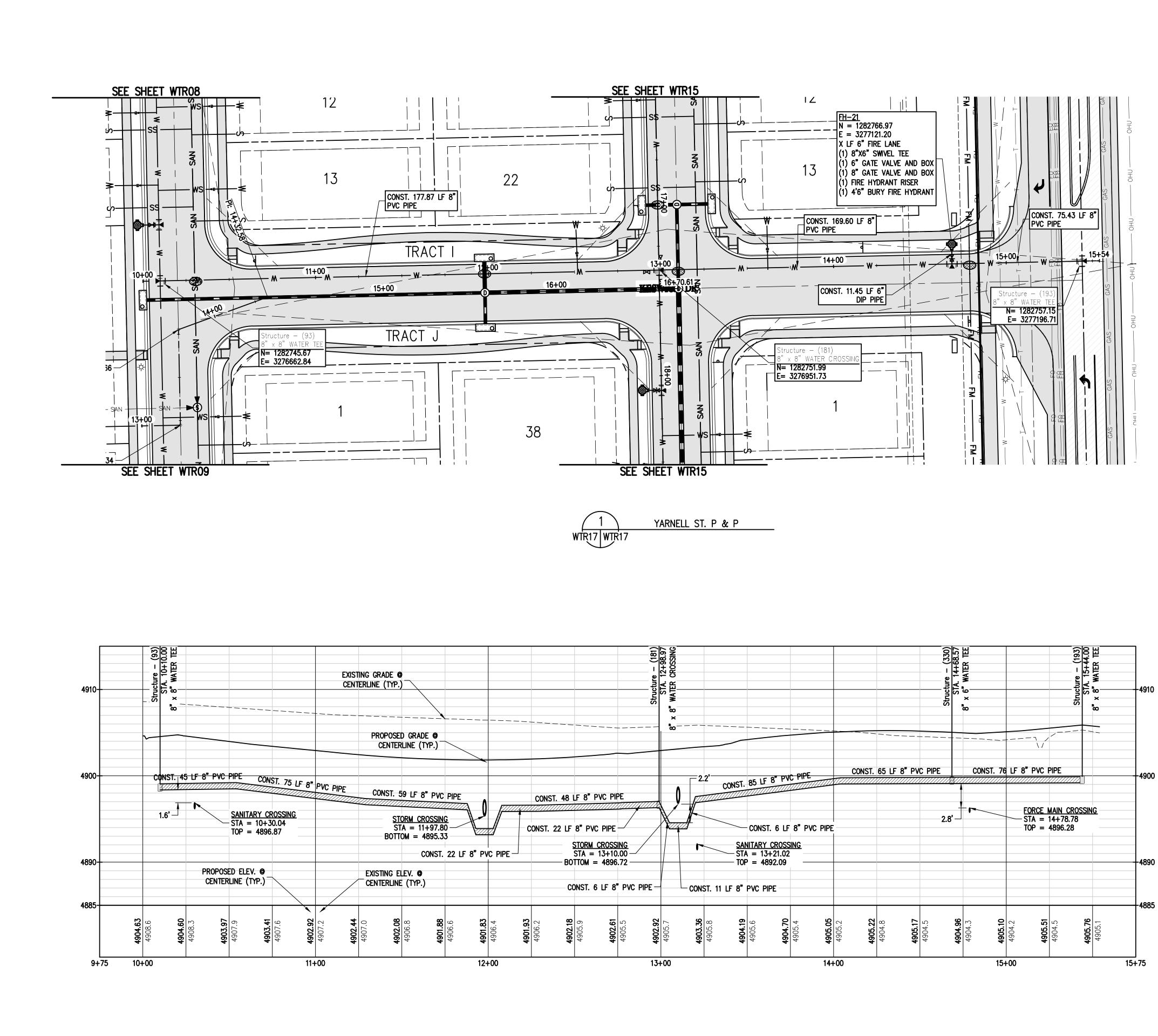


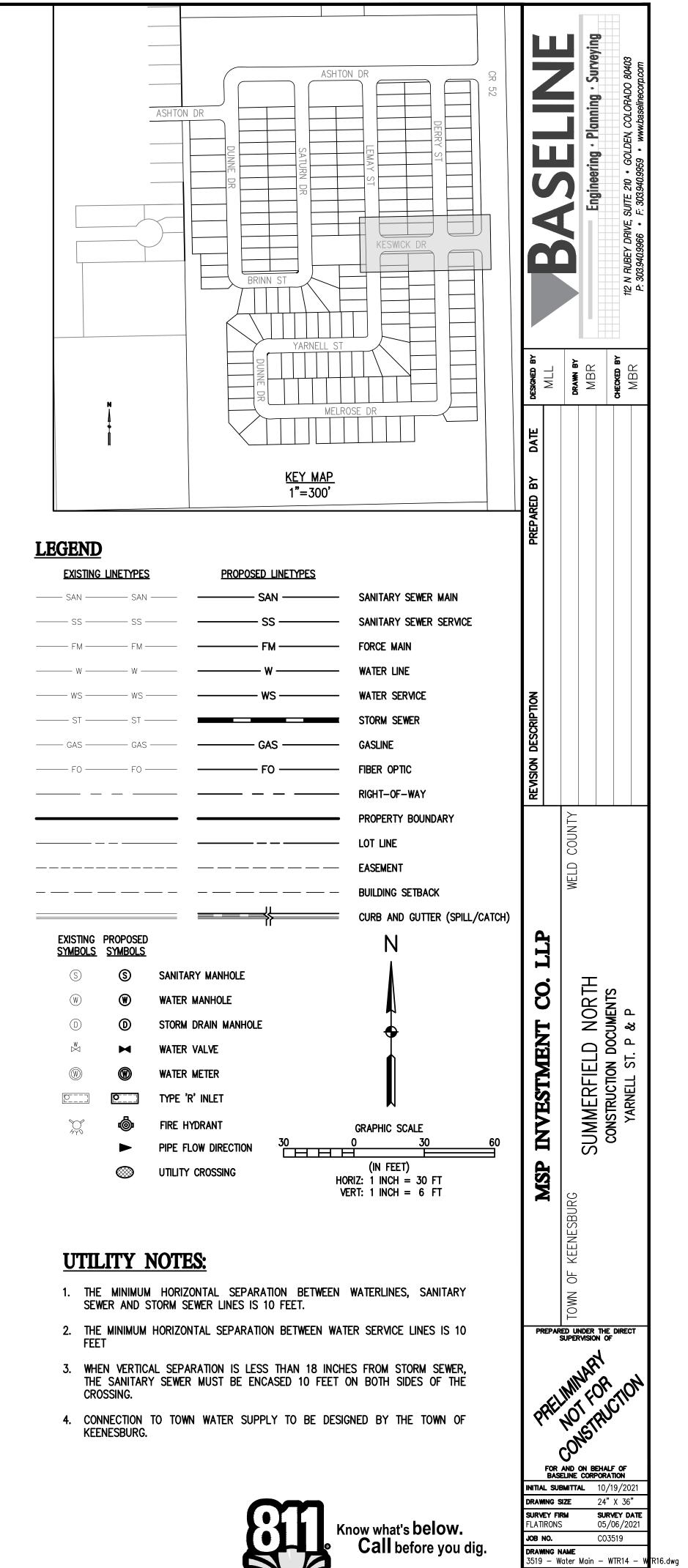




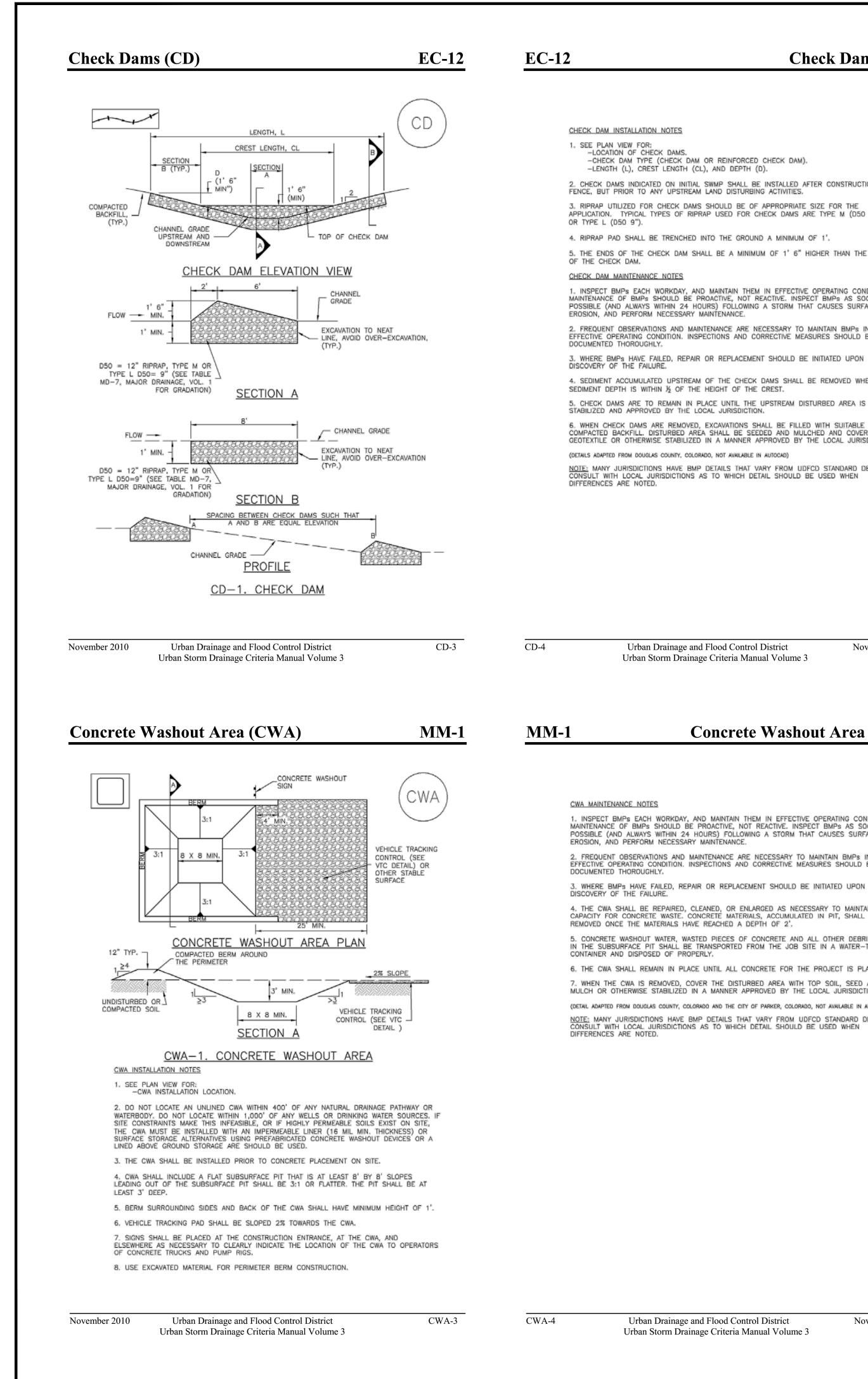








SHEET 82 OF 88



**Check Dams (CD)** 

**SM-3** 

### **Construction Fence (CF)**

-CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM). -LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).

2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.

APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12")

5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE, INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

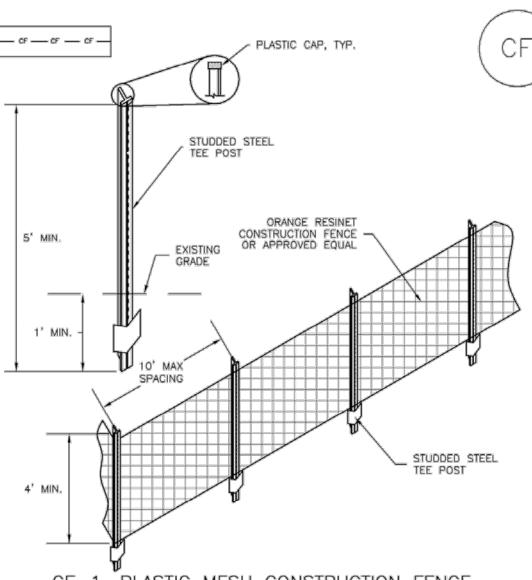
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

4. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE

5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

6. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN



CF-1. PLASTIC MESH CONSTRUCTION FENCE

CONSTRUCTION FENCE INSTALLATION NOTES 1. SEE PLAN VIEW FOR: -LOCATION OF CONSTRUCTION FENCE.

2. CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING

3. CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY. 4. STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.

5. CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

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CF-2

#### $\sim$ Concrete Washout Area (CWA)

# **Rolled Erosion Control Products (RECP)**

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

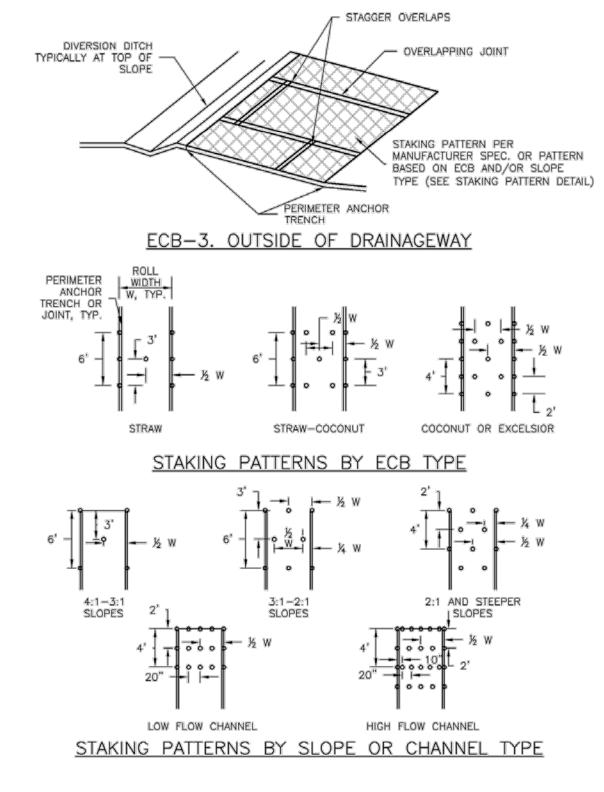
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT

6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED. 7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD). NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN



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# **Construction Fence (CF)**

## **SM-3**

CF-3

CONSTRUCTION FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. 5. WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

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**EC-6** 

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#### EC-6 **Rolled Erosion Control Products (RECP**

EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF ECB.

-TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR). -AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.

2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPS, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.

3. IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET

4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.

5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBS EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.

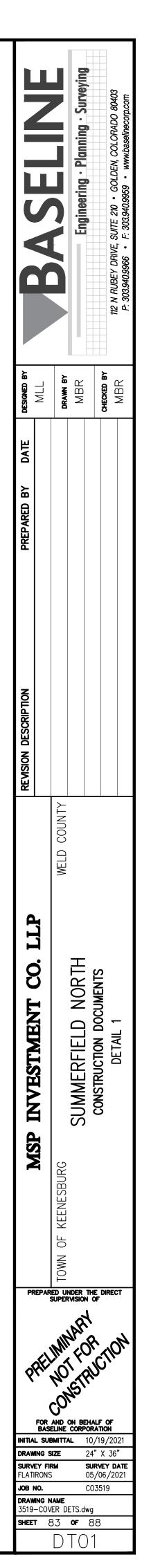
6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs. 7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.

8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.

9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBS SHALL BE RESEEDED AND MULCHED.

10, DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS					
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**	
STRAW*	- 100%		-	DOUBLE/ NATURAL	
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL	
COCONUT	100%	_		DOUBLE/ NATURAL	
EXCELSIOR	_	-	100%	DOUBLE/ NATURAL	
*STRAW ECBS MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNEL. **ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS					

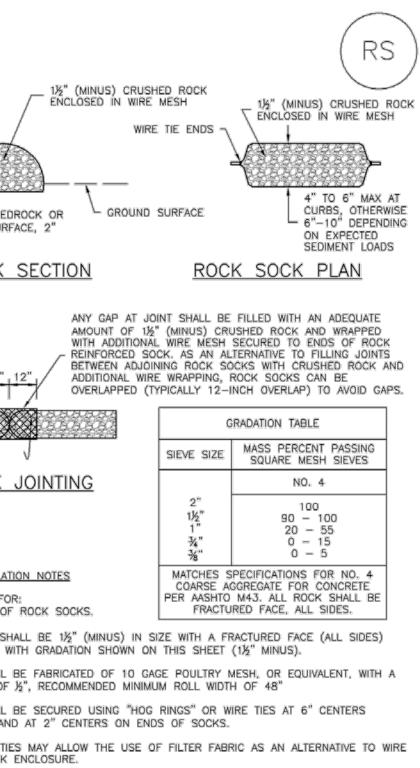


RECP-8

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	EROSION CONTROL BLANKET MAINTENANCE NOTES 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE		/ 1½" ENCL
	EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.		
	<ol> <li>WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.</li> <li>ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE</li> </ol>		BEDROCK OR URFACE, 2"
	REMOVED BY THE LOCAL JURISDICTION. 5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED,	ROCK SOC	ŭ
	RESEEDED AND MULCHED AND THE ECB REINSTALLED. <u>NOTE:</u> MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.		
	(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)	ROCK SOCK, TYP	
		ROCK SOCK	
		ROCK SOCK INSTAL	FOR:
		-LOCATION(S) 2. CRUSHED ROCK AND SHALL COMPL 3. WIRE MESH SHA MAXIMUM OPENING	SHALL BE 1) Y WITH GRADA LL BE FABRIC
		4. WIRE MESH SHA ALONG ALL JOINTS 5. SOME MUNICIPAI	LL BE SECUR AND AT 2" C
		MESH FOR THE ROMESH FOR THE ROMESH $RS-1$	
Novembe	r 2010 Urban Drainage and Flood Control District RECP-9 Urban Storm Drainage Criteria Manual Volume 3	<u>RS-1</u> RS-2 U	. ROCK
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	Urban Storm Drainage Criteria Manual Volume 3 SILT FENCE INSTALLATION NOTES 1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2–5 FT) FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING AND DEPOSITION. 2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.	<u>RS-1</u> RS-2 Urt	. ROCK rban Drainag oan Storm Di
	Urban Storm Drainage Criteria Manual Volume 3 SILT FENCE INSTALLATION NOTES SILT FENCE INSTALLATION NOTES 1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2–5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION. 2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL	<u>RS-1</u> RS-2 Urt	. ROCK
	SILT FENCE INSTALLATION NOTES SILT FENCE INSTALLATION NOTES 1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2–5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION. 2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE, NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL 3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING, COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR 4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES, THERE SHOULD 5. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES, THERE SHOULD 6. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NALLS WITH 1" HEADS, STAPLES AND ANLS SHOULD BE PLACED 3" ALONG THE FABRIC	<u>RS-1</u> RS-2 Urt	A ROCK
	<ul> <li>SILT FENCE INSTALLATION NOTES</li> <li>SILT FENCE INSTALLATION NOTES</li> <li>1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.</li> <li>2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE, NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL EUSED.</li> <li>3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING, COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.</li> <li>4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES, THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES, THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES, THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.</li> </ul>	<u>RS-1</u> RS-2 Urt	BARNER ROCK
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	<ul> <li>Urban Storm Drainage Criteria Manual Volume 3</li> <li>SLIT FENCE (SF)</li> <li>SLIT FENCE INSTALLATION MOTES</li> <li>SLIT FENCE INSTALLATION MOTES</li> <li>1, SLIT FENCE INSTALLATION MOTES</li> <li>1, SLIT FENCE INSTALLATION MOTES</li> <li>1, SLIT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER AT LOCATION AS SLIT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FAIL LOCATION TAL LAST SEVERAL FEET (2.5 FT) FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER AT LOCATION SLIT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FAIL LOCATION TAL LAST SEVERAL FEET (2.5 FT) FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER AT LOCATION AS SLIT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FAIL LOCATION TAL LAST SEVERAL FEET (2.5 FT) FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER AT LOCATION SMALL FOR VERSEL ON GNADERS, BACKHOES, OR SIMURE BEUIPINET SHALL</li> <li>1, OMAPAT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING.</li> <li>1, SLIT FENCE SHALL BE SUCH THAT SLIT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.</li> <li>3, SLIT FENCE SHALL BE SUCH THAT SLIT FENCE RESISTS BEING PULLED OUT OF ANCHOR TOR NON TOTECHABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.</li> <li>3, SLIT FENCE SHALL BE ANCHORED TO THE STAKES LING "HEAT JUDY AND THE STAKES.</li> <li>4, SLIT FENCE SHALL BE INSTALLED AND ON ALL SCHOULD BE PLACED 3" ALONG THE FABRICA.</li> <li>4, SLIT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES LING "HEAT JUDY BE SLATERS.</li> <li>4, SLIT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES LING "HEAT JUDY BE SLATERS.</li> <li>4, SLIT FENCE MAR AND AND AN ANALS SHOULD BE PLACED 3" ALONG THE FABRICA.</li> <li>4, SLIT FENCE AND AN SILT FENCE ALONG A CONTOUR, THE SLIT FENCE SHOULD BE TOR TO THE STAKES.</li> <li>4, SLIT FENCE SHALL BE INSTALLED PRIOR TO ANY LING DISTURBING ALONG THE FABRICA.</li> <li>4, DENDER PREPADICILLAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO SAID SHOULD STAKES SHOULD BE PROADCILLAR TO THE GONTON. STARE STAKES STROULD STA</li></ul>	RS-1 RS-2 Utur Stockpile Mans Stockpile Mans Construction Construction Stockpile Protection Construction Stockpile Protection Construction Stockpile Protection Construction Stockpile Protection Construction Stockpile Protection Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Constructio	SP-1. STOCKPILE PRO STOCKPILE PRO STOCKPILE PRO STOCKPILE PRO STOCKPILE SU STOCKPILE SU STOCKPILE SU STOCKPILE SU
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### Rock Sock (RS)



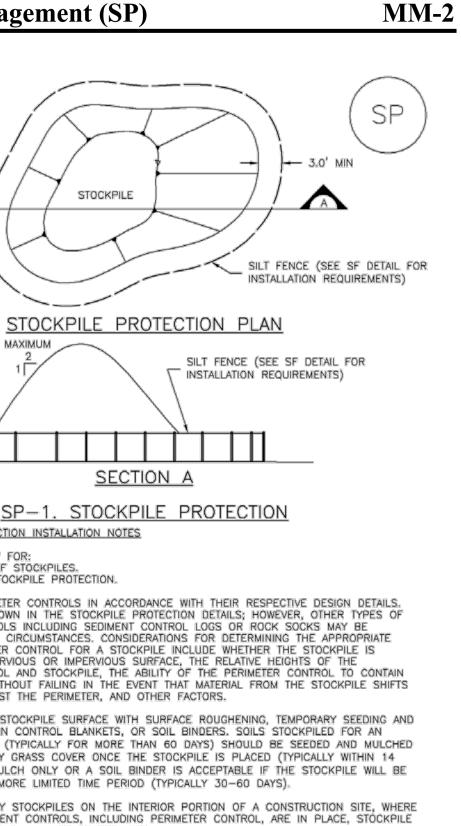
<u>OCK SOCK PERIMETER CONTROL</u>

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**MM-2** 

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**Stockpile Management (SM)** 



Rock Sock (RS)

ROCK SOCK MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.

5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.

6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER NDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

STOCKPILE PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

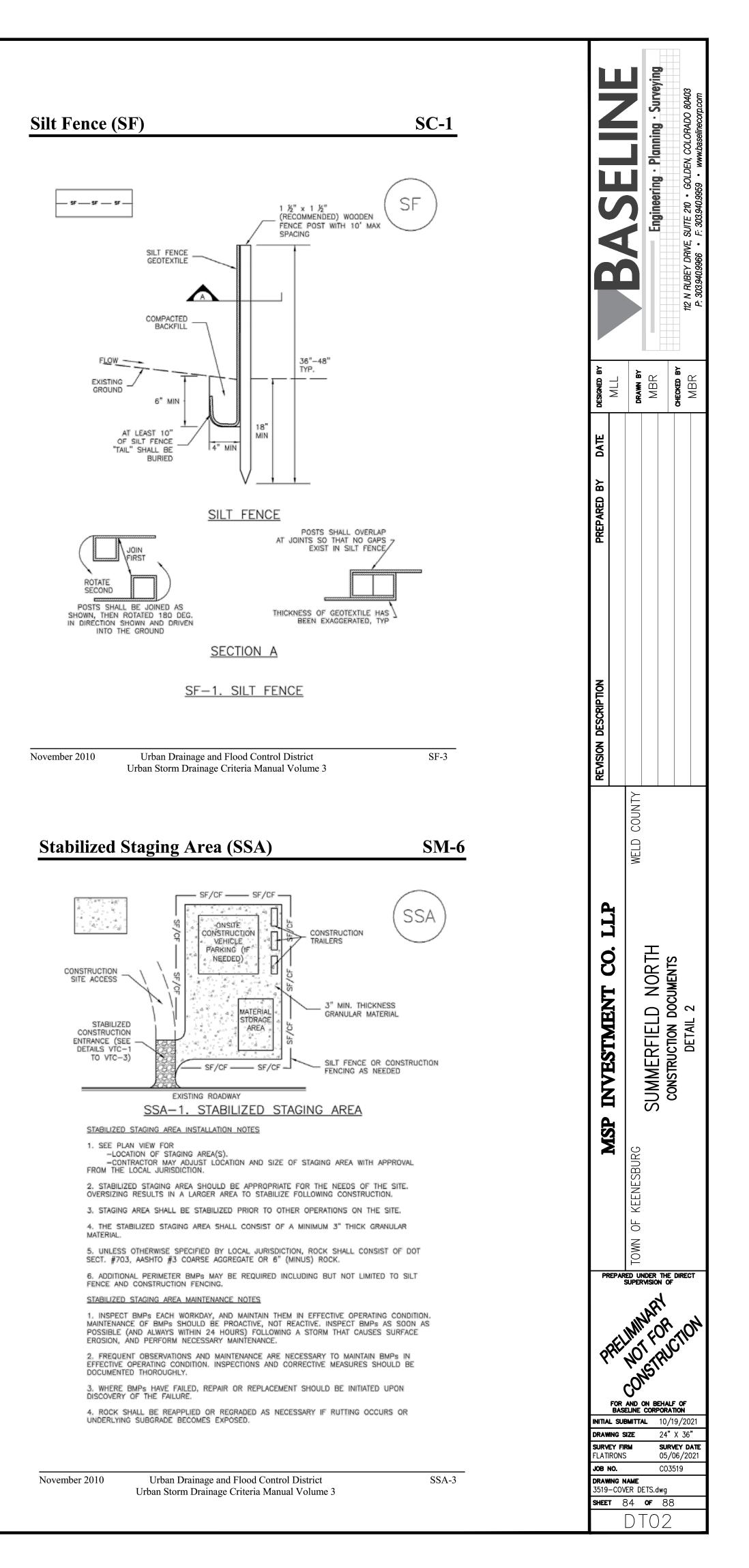
(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.

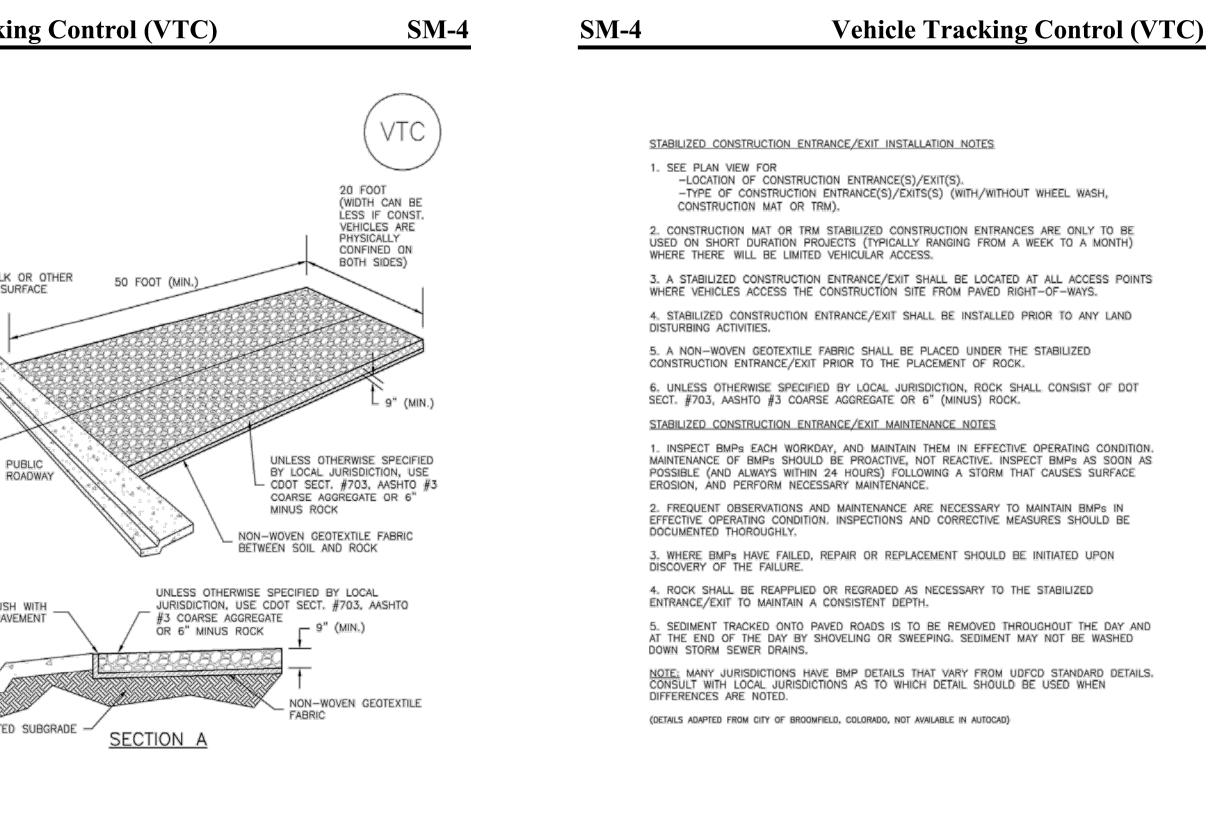
5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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<b>SM-6</b>	Stabilized Staging Area (SSA)	Vehicle Tracking Control (VTC)
5. STABILIZED	GING AREA MAINTENANCE NOTES STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING,	
6. THE STABILI GRANULAR MATI USED ON SITE, OTHERWISE STA <u>NOTE:</u> MANY MI MATERIAL FOR	UNLOADING/LOADING OPERATIONS. ZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE ERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR BILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION. JNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF AREAS WHERE RECYCLED CONCRETE WAS PLACED.	SIDEWALK OR OTHER PAVED SURFACE 50 FOOT (MIN.)
NOTE: MANY JU CONSULT WITH DIFFERENCES A	RISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS.	
		PUBLIC ROADWAY NON-WOVEN BETWEEN SO
		UNLESS OTHERWISE SPECIFI JURISDICTION, USE CDOT SI #3 COARSE AGGREGATE OR 6" MINUS ROCK COMPACTED SUBGRADE SECTION A
		VTC-1. AGGREGATE VEHICLE TRACKING
SSA-4	Urban Drainage and Flood Control District November 2010	November 2010         Urban Drainage and Flood Control District



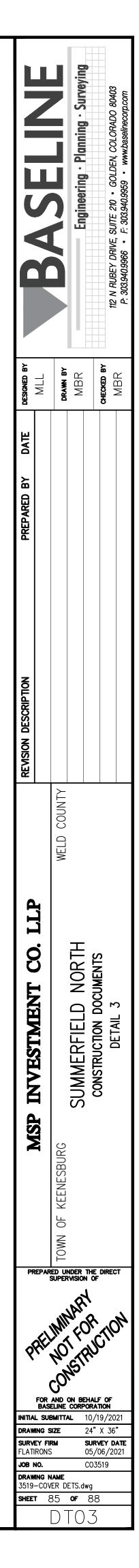
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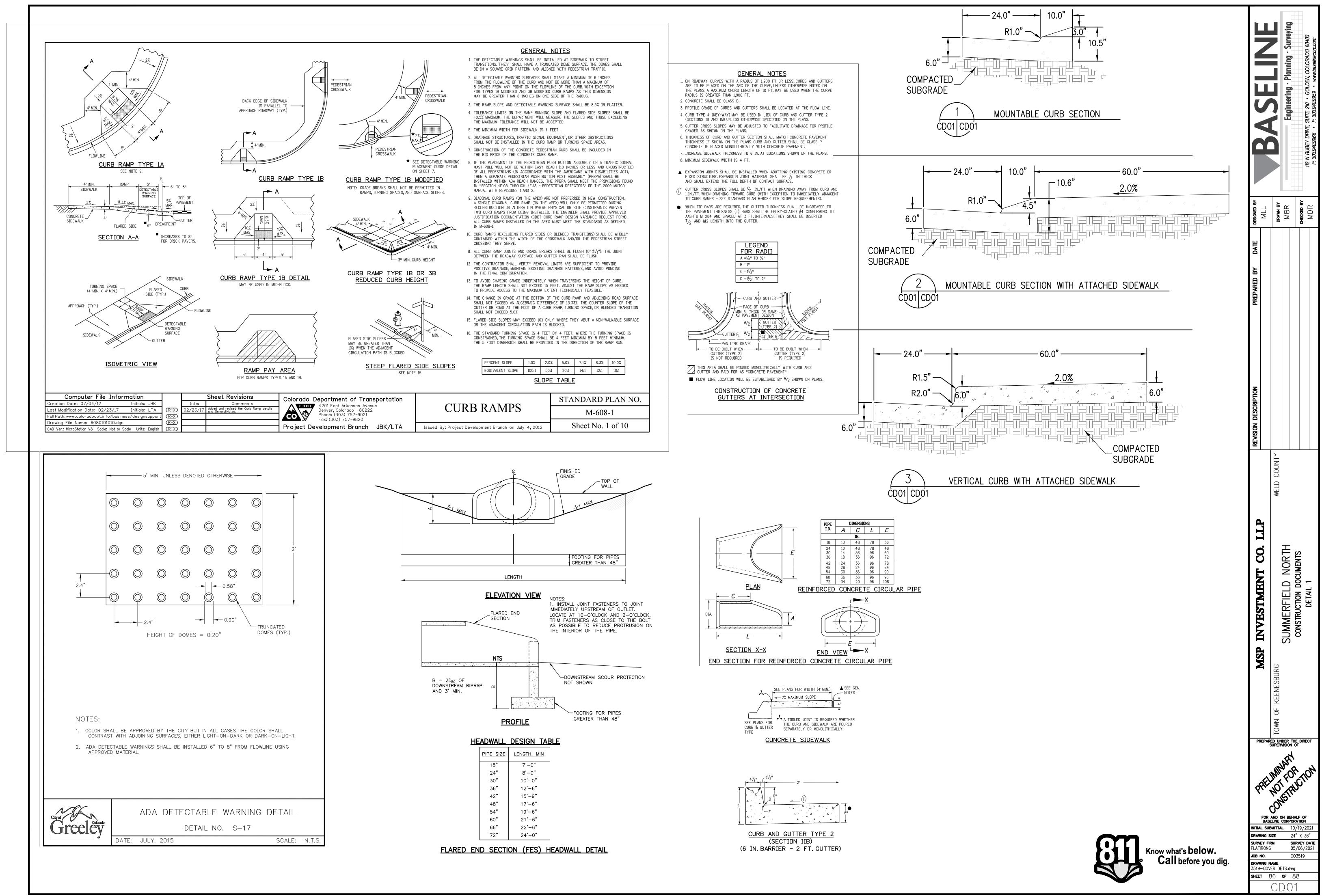
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Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

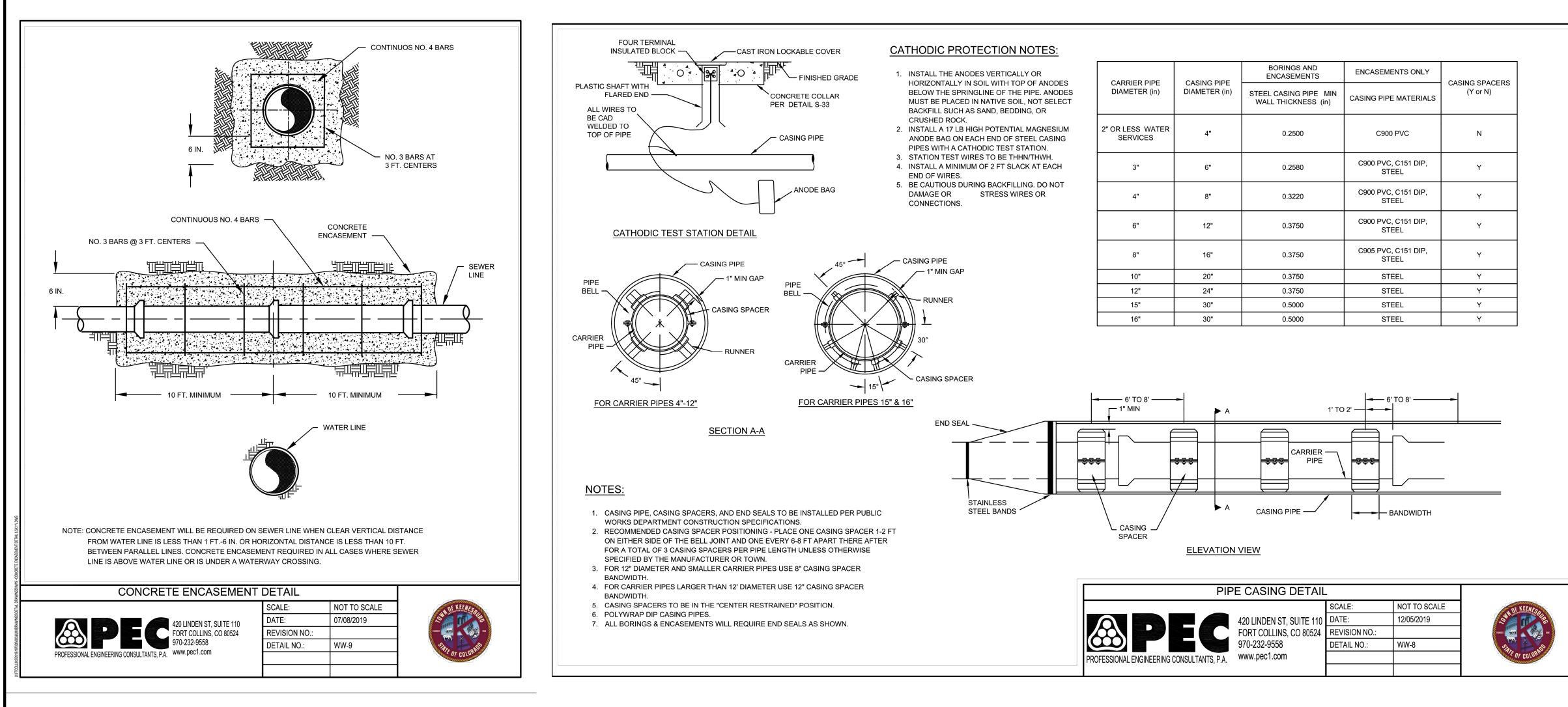


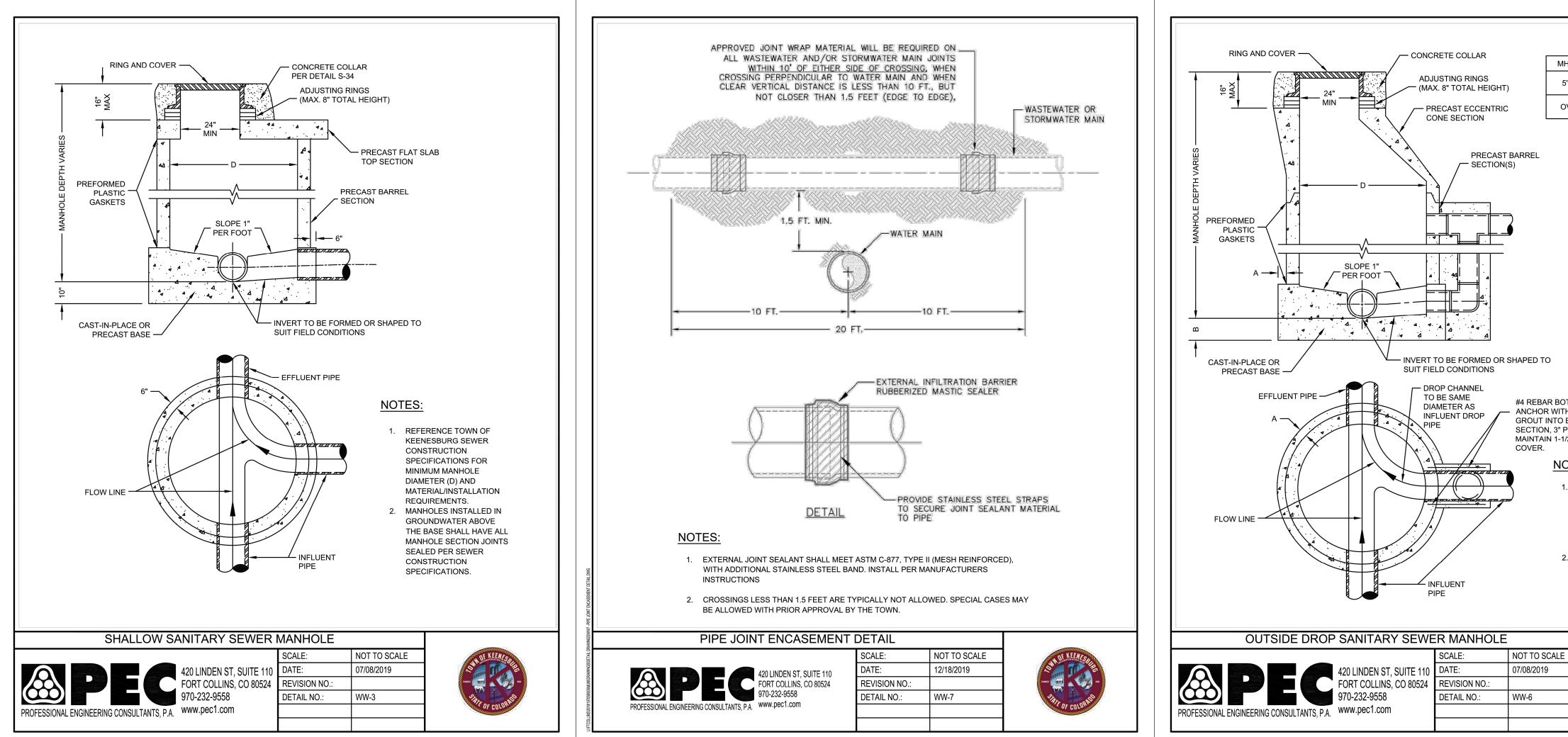
#### Wetter Site Mix Western wheatgrass (Arriba, Barton, Rosana) 3.00 lbs pls/acre Slender wheatgrass (Pryor, San Luis) 2.00 lbs pls/acre Alkaligrass (Fults II, Salt on Sea) 2.50 lbs pls/acre Streambank Wheatgrass (Sodar) 2.50 lbs pls/acre Switchgrass (Nebraska 28, Blackwell) 1.75 lbs pls/acre Green Needlegrass (Lodorm) 0.50 lbs pls/acre Sideoats Grama (Butte, El Reno, Pierre) 1.00 lbs pls/acre Perennial Ryegrass (Calibra or Garibaldi tetraploid) 0.50 lbs pls/acre Sand Dropseed 0.25 lbs pls/acre Total: 14.00 pounds pls/acre





18"	7'-0"	
24"	8'-0"	
30"	10'-0"	
36"	12'-6"	
42"	15'-9"	
48"	17'-6"	
54"	19'-6"	
60"	21'-6"	
66"	22'-6"	
72"	24'-0"	





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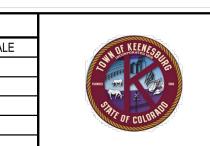
MH DEPTH	А	В
5' TO 15'	3"	8"
0 10 10	Ŭ	0
OVER 15'	6"	10"

#4 REBAR BOTH SIDES, DRILL & ANCHOR WITH NON-SHRINK GROUT INTO BASE & CONE

SECTION, 3" PENENTRATION. MAINTAIN 1-1/2" CONCRETE

NOTES:

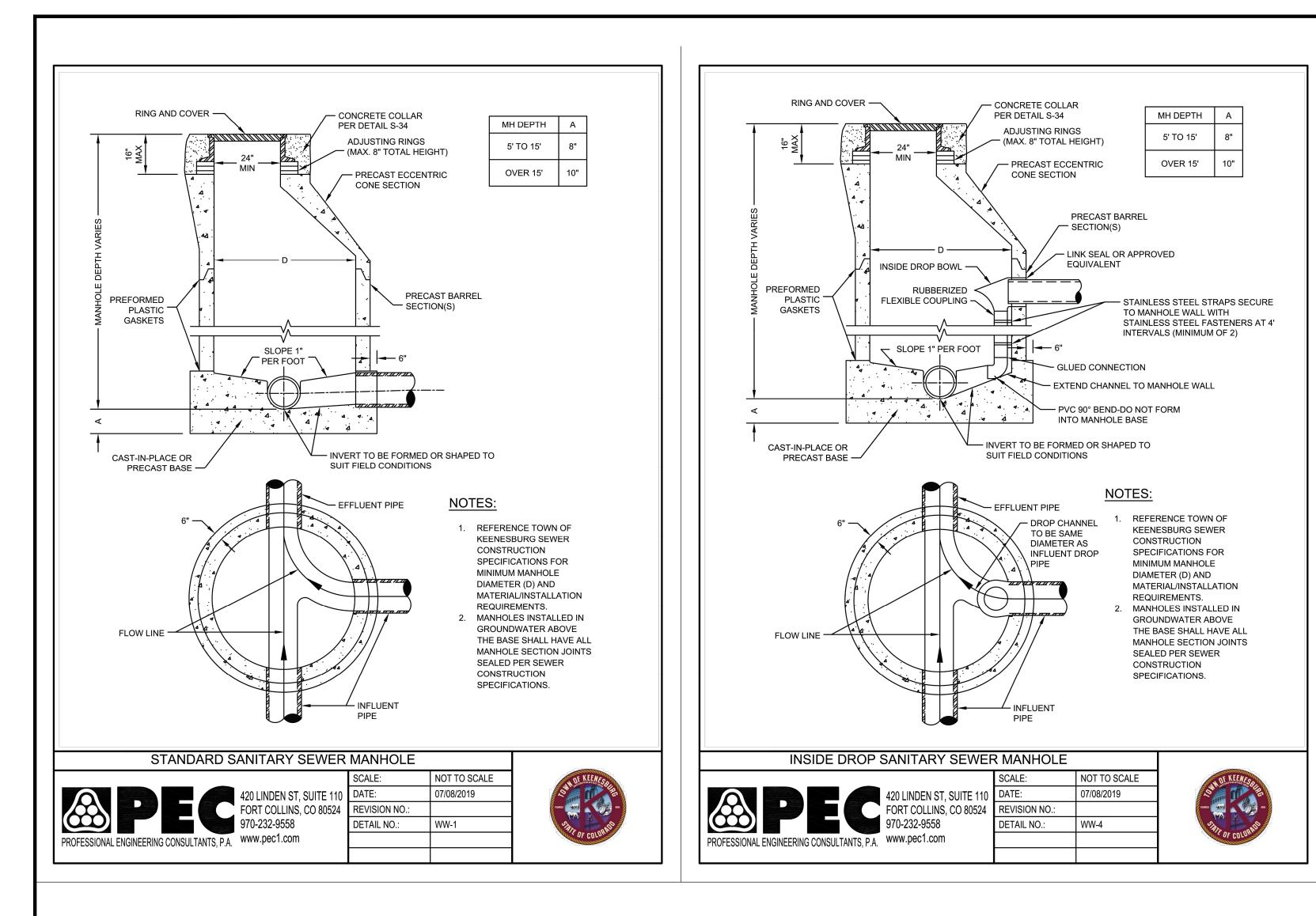
- 1. REFERENCE TOWN OF KEENESBURG SEWER CONSTRUCTION SPECIFICATIONS FOR MINIMUM MANHOLE DIAMETER (D) AND MATERIAL/INSTALLATION REQUIREMENTS.
- 2. MANHOLES INSTALLED IN GROUNDWATER ABOVE THE BASE SHALL HAVE ALL MANHOLE SECTION JOINTS SEALED PER SEWER CONSTRUCTION SPECIFICATIONS.

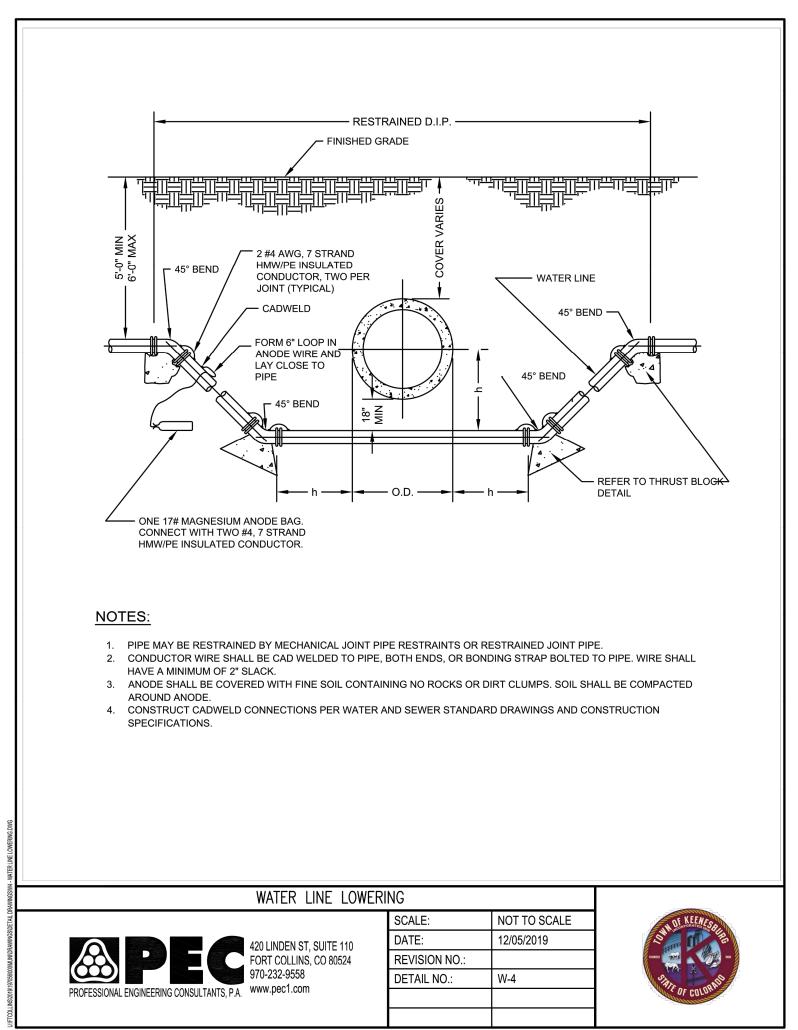


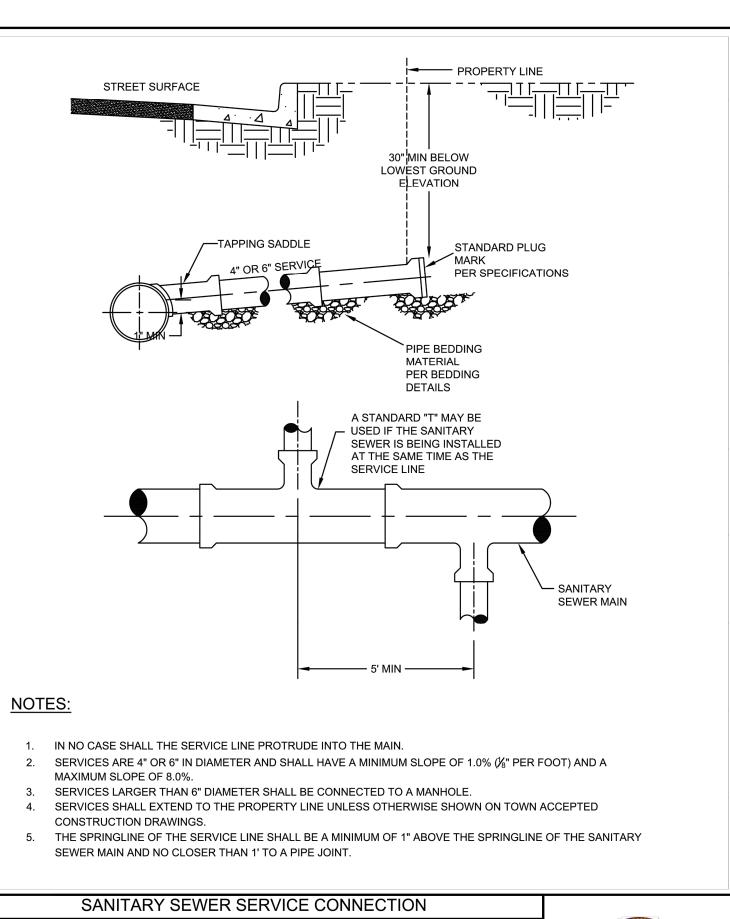


Know what's **below**. Call before you dig

			Fnaineerina · Plannina · Survevina			112 N RUBEY DRIVE, SUITE 210 · GOLDEN, COLORADO 80403	P. 303.940.9966 • F. 303.940.9959 • www.baselinecorp.com
DESIGNED BY	MLL	DRAWN BY	MBR		CHECKED BY		⊻ n ≥
DATE							
PREPARED BY							
REVISION DESCRIPTION							
		TOWN OF KEENESBURG	SUMMERFIELD NORTH		CUNDIRUCIUN DUCUMENID	DETAIL 2	
PREPARED UNDER THE DIRECT SUPERVISION OF PRELIMINARY PRELIMINARY FOR THUS NOT THUS CONSTRUCTION							
DRAW SURV	BASE L SUE ING S	ELINE BMITTA IZE RM	CORF	24"	19/ 19/ X	N /20 36'	21 " <b>ATE</b>
JOB I DRAW	<b>ing n</b> -COV	AME	ETS.d OF	05/ c03 lwg 88	519		)21





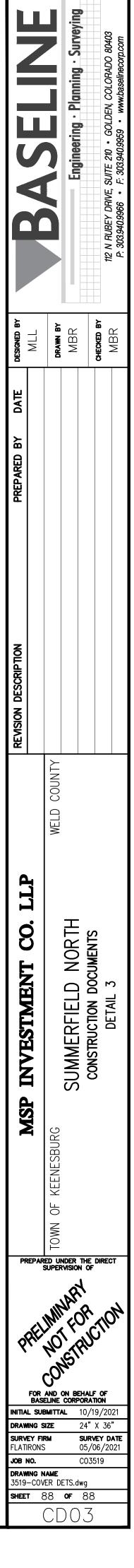


NOT TO SCALE

07/08/2019

WW-2

		SCALE:	
	420 LINDEN ST, SUITE 110 FORT COLLINS, CO 80524	DATE:	
		REVISION NO .:	
	970-232-9558	DETAIL NO.:	
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	www.pec1.com		





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